

1. Pracujte s daty v souboru 08\_testovani.sta (tataž data jsou na listu data).
2. Vykreslete histogramy o 16 sloupcích pro proměnné výška skupina 1, výška skupina

výška skupina 1

asi normální

výška skupina 2

asi normální

3. Podložte své úsudky výsledky Lilieforsova a Shapiro-Wilksova testu.

výška skupina 1

Liliefors p:

0.200

výška skupina 2

skoro 1,000

Shapiro-Wilks p:

0.077

0.343

4. V případě, že některá z proměnných není normálně rozdělená, pokuste se navrhnou

Transformace:

žádná

žádná

5. Navrhněte použití příslušných testů shody pro dvojice proměnných výška skupina 1

Test shody:

Výška skupina 1 × Výška skupina 2:

6. Proveďte příslušné testy v aplikaci Statistica za předpokladu závislosti (párovosti) ho

Výsledky testů:

p hodnota:

7. Proveďte příslušné testy v aplikaci Statistica za předpokladu nezávislosti (tj. hodnoty

Výsledky testů:

p hodnota:

2, r1, Leukocyty, Tep1 a Tep2. Co usuzujete o jejich rozdělení?

r1

Leukocyty

Tep1

nebude normální

těžko říct

nenormální

r1

Leukocyty

Tep1

0.010

skoro 1,000

0.050

skoro 0,000

0.605

0.020

it transformaci na normální rozdělení nebo zdůvodnit, proč není taková transformace možná.

logaritmická

žádná

nemá smysl

& výška skupina 2 a Tep1 & Tep2 a formulujte nulové a alternativní hypotézy.

nepárový t-test

Tep1 × Tep2:

hodnot v tabulce (tj. předpokládejte, že hodnoty na jednom řádku patří jednomu pacientovi)

< 0,001

p hodnota:

jsou v řádcích náhodně).

< 0,001

p hodnota:

Tep2

nenormální

Tep2

0.010

0.002

nemá smysl

Wilcoxonův test

< 0,001

< 0,001

| Výška postavy | výška skupina 1 100 | výška skupina 1 | výška skupina 2 | výška skupina 1+2 | skupina |
|---------------|---------------------|-----------------|-----------------|-------------------|---------|
| 176.997678    | 176.997678          | 176.997678      | 158.45511       | 176.997678        | 1       |
| 167.223168    | 167.223168          | 167.223168      | 150.777451      | 167.223168        | 1       |
| 182.442573    | 182.442573          | 182.442573      | 163.282014      | 182.442573        | 1       |
| 192.764735    | 192.764735          | 192.764735      | 182.652239      | 192.764735        | 1       |
| 191.983502    | 191.983502          | 191.983502      | 148.350169      | 191.983502        | 1       |
| 197.331331    | 197.331331          | 197.331331      | 161.181206      | 197.331331        | 1       |
| 158.164124    | 158.164124          | 158.164124      | 172.804571      | 158.164124        | 1       |
| 177.658188    | 177.658188          | 177.658188      | 149.085927      | 177.658188        | 1       |
| 190.950225    | 190.950225          | 190.950225      | 159.962131      | 190.950225        | 1       |
| 169.132994    | 169.132994          | 169.132994      | 168.624511      | 169.132994        | 1       |
| 173.097958    | 173.097958          | 173.097958      | 156.823567      | 173.097958        | 1       |
| 163.095677    | 163.095677          | 163.095677      | 165.455058      | 163.095677        | 1       |
| 161.530891    | 161.530891          | 161.530891      | 161.098806      | 161.530891        | 1       |
| 170.223705    | 170.223705          | 170.223705      | 150.615879      | 170.223705        | 1       |
| 172.264929    | 172.264929          | 172.264929      | 158.885028      | 172.264929        | 1       |
| 158.820688    | 158.820688          | 158.820688      | 169.138603      | 158.820688        | 1       |
| 174.320751    | 178.320751          | 174.320751      | 158.062867      | 174.320751        | 1       |
| 175.959524    | 175.959524          | 175.959524      | 144.495616      | 175.959524        | 1       |
| 181.348531    | 181.348531          | 181.348531      | 165.246727      | 181.348531        | 1       |
| 176.34507     | 178.34507           | 176.34507       | 175.44613       | 176.34507         | 1       |
| 176.730094    | 176.730094          | 176.730094      | 168.952043      | 176.730094        | 1       |
|               | 181.297595          | 176.297595      | 165.81008       | 176.297595        | 1       |
|               | 193.426416          | 193.426416      | 181.355481      | 193.426416        | 1       |
|               | 171.147155          | 179.147155      | 140.990924      | 179.147155        | 1       |
|               | 182.138424          | 178.138424      | 161.544117      | 178.138424        | 1       |
|               | 174.867926          | 174.867926      | 173.805266      | 174.867926        | 1       |
|               | 199.72212           | 199.72212       | 163.130617      | 199.72212         | 1       |
|               | 188.65673           | 188.65673       | 168.344909      | 188.65673         | 1       |
|               | 203.756547          | 203.756547      | 144.556416      | 203.756547        | 1       |
|               | 173.450933          | 173.450933      | 157.092777      | 173.450933        | 1       |
|               | 196.614558          | 196.614558      | 148.732179      | 196.614558        | 1       |
|               | 163.876023          | 163.876023      | 144.823125      | 163.876023        | 1       |
|               | 185.389484          | 185.389484      | 154.721645      | 185.389484        | 1       |
|               | 189.021915          | 189.021915      | 156.416943      | 189.021915        | 1       |
|               | 199.189156          | 199.189156      | 166.712048      | 199.189156        | 1       |
|               | 179.154829          | 179.154829      | 167.392896      | 179.154829        | 1       |
|               | 174.762049          | 174.762049      | 174.450552      | 174.762049        | 1       |
|               | 186.751384          | 186.751384      | 176.765489      | 186.751384        | 1       |
|               | 176.186762          | 176.186762      | 158.298529      | 176.186762        | 1       |
|               | 187.576114          | 187.576114      | 164.58964       | 187.576114        | 1       |
|               | 165.558134          | 165.558134      | 154.665291      | 165.558134        | 1       |
|               | 171.527625          | 171.527625      | 164.604954      | 171.527625        | 1       |
|               | 164.78429           | 164.78429       | 157.804969      | 164.78429         | 1       |
|               | 176.37123           | 176.37123       | 154.06723       | 176.37123         | 1       |
|               | 179.675208          | 179.675208      | 171.121801      | 179.675208        | 1       |
|               | 180.28117           | 180.28117       | 171.636257      | 180.28117         | 1       |
|               | 176.77284           | 176.77284       | 140.858775      | 176.77284         | 1       |
|               | 201.945016          | 201.945016      | 175.887144      | 201.945016        | 1       |
|               | 162.575173          | 162.575173      | 170.611006      | 162.575173        | 1       |

|            |            |            |            |   |
|------------|------------|------------|------------|---|
| 172.63523  | 172.63523  | 156.481313 | 172.63523  | 1 |
| 154.224193 | 154.224193 | 176.393597 | 154.224193 | 1 |
| 194.4767   | 194.4767   | 171.073666 | 194.4767   | 1 |
| 167.202364 | 167.202364 | 162.169963 | 167.202364 | 1 |
| 178.464201 | 173.464201 | 137.756306 | 173.464201 | 1 |
| 187.577137 | 187.577137 | 159.585646 | 187.577137 | 1 |
| 184.667118 | 184.667118 | 167.611834 | 184.667118 | 1 |
| 188.746088 | 188.746088 | 157.528255 | 188.746088 | 1 |
| 185.957418 | 185.957418 | 163.939408 | 185.957418 | 1 |
| 166.2815   | 166.2815   | 146.304965 | 166.2815   | 1 |
| 168.842615 | 168.842615 | 141.377186 | 168.842615 | 1 |
| 186.939945 | 186.939945 | 161.934791 | 186.939945 | 1 |
| 183.226364 | 183.226364 | 177.376169 | 183.226364 | 1 |
| 170.601623 | 170.601623 | 166.893299 | 170.601623 | 1 |
| 177.590521 | 177.590521 | 143.33351  | 177.590521 | 1 |
| 181.315357 | 181.315357 | 147.443289 | 181.315357 | 1 |
| 185.577976 | 185.577976 | 164.9964   | 185.577976 | 1 |
| 181.38715  | 181.38715  | 159.046531 | 181.38715  | 1 |
| 170.890387 | 170.890387 | 163.873356 | 170.890387 | 1 |
| 198.848459 | 198.848459 | 168.505276 | 198.848459 | 1 |
| 184.871981 | 184.871981 | 141.606197 | 184.871981 | 1 |
| 180.722389 | 180.722389 | 153.7653   | 180.722389 | 1 |
| 188.298412 | 188.298412 | 156.015913 | 188.298412 | 1 |
| 188.620077 | 188.620077 | 162.755928 | 188.620077 | 1 |
| 173.634685 | 173.634685 | 154.982784 | 173.634685 | 1 |
| 170.768083 | 170.768083 | 154.106406 | 170.768083 | 1 |
| 191.111888 | 191.111888 | 143.956923 | 191.111888 | 1 |
| 167.988213 | 167.988213 | 159.89634  | 167.988213 | 1 |
| 164.411079 | 164.411079 | 171.23326  | 164.411079 | 1 |
| 187.113249 | 187.113249 | 148.297236 | 187.113249 | 1 |
| 186.384062 | 186.384062 | 156.177712 | 186.384062 | 1 |
| 202.056884 | 202.056884 | 172.950068 | 202.056884 | 1 |
| 194.437546 | 194.437546 | 158.315604 | 194.437546 | 1 |
| 193.039039 | 193.039039 | 144.338501 | 193.039039 | 1 |
| 181.129604 | 181.129604 | 165.686445 | 181.129604 | 1 |
| 180.019509 | 180.019509 | 146.277589 | 180.019509 | 1 |
| 184.537014 | 184.537014 | 163.603463 | 184.537014 | 1 |
| 179.744853 | 179.744853 | 158.207647 | 179.744853 | 1 |
| 169.453249 | 169.453249 | 170.208578 | 169.453249 | 1 |
| 162.251938 | 162.251938 | 154.876657 | 162.251938 | 1 |
| 188.283314 | 188.283314 | 148.805484 | 188.283314 | 1 |
| 184.442245 | 184.442245 | 161.313811 | 184.442245 | 1 |
| 186.179062 | 186.179062 | 161.665001 | 186.179062 | 1 |
| 182.134732 | 182.134732 | 153.070765 | 182.134732 | 1 |
| 169.730691 | 169.730691 | 173.170848 | 169.730691 | 1 |
| 192.381952 | 192.381952 | 167.295716 | 192.381952 | 1 |
| 176.887868 | 176.887868 | 155.834708 | 176.887868 | 1 |
| 171.600782 | 171.600782 | 161.918431 | 171.600782 | 1 |
| 171.788718 | 171.788718 | 153.631877 | 171.788718 | 1 |
| 175.710073 | 175.710073 | 166.668984 | 175.710073 | 1 |

|            |            |            |            |   |
|------------|------------|------------|------------|---|
| 175.466385 | 175.466385 | 175.622527 | 175.466385 | 1 |
|            | 174.762049 | 145.22685  | 174.762049 | 1 |
|            | 188.494294 | 146.178841 | 188.494294 | 1 |
|            | 185.132074 | 167.082758 | 185.132074 | 1 |
|            | 173.916958 | 155.226835 | 173.916958 | 1 |
|            | 193.049794 | 150.110814 | 193.049794 | 1 |
|            | 162.390636 | 167.191306 | 162.390636 | 1 |
|            | 185.505717 | 139.351924 | 185.505717 | 1 |
|            | 178.837279 | 149.226399 | 178.837279 | 1 |
|            | 180.417413 | 156.969655 | 180.417413 | 1 |
|            | 173.45946  | 161.195838 | 173.45946  | 1 |
|            | 174.50406  | 168.028337 | 174.50406  | 1 |
|            | 188.493203 | 148.706168 | 188.493203 | 1 |
|            | 188.030452 | 161.226658 | 188.030452 | 1 |
|            | 184.564163 | 161.65337  | 184.564163 | 1 |
|            | 186.913683 | 157.421628 | 186.913683 | 1 |
|            | 196.30624  | 163.19817  | 196.30624  | 1 |
|            | 183.039145 | 149.429193 | 183.039145 | 1 |
|            | 185.889956 | 156.21308  | 185.889956 | 1 |
|            | 198.528362 | 169.121209 | 198.528362 | 1 |
|            | 176.644431 | 159.74026  | 176.644431 | 1 |
|            | 190.382746 | 167.071935 | 190.382746 | 1 |
|            | 181.435046 | 148.297236 | 181.435046 | 1 |
|            | 191.410407 | 178.00513  | 191.410407 | 1 |
|            | 178.517012 | 169.560222 | 178.517012 | 1 |
|            | 172.201833 | 141.155997 | 172.201833 | 1 |
|            | 190.759936 | 161.995625 | 190.759936 | 1 |
|            | 174.18178  | 156.469103 | 174.18178  | 1 |
|            | 185.33912  | 162.609227 | 185.33912  | 1 |
|            | 185.457719 | 178.032279 | 185.457719 | 1 |
|            | 176.835629 | 161.732519 | 176.835629 | 1 |
|            | 175.592339 | 156.591782 | 175.592339 | 1 |
|            | 166.340072 | 162.729712 | 166.340072 | 1 |
|            | 199.929576 | 145.716886 | 199.929576 | 1 |
|            | 174.335121 | 154.987127 | 174.335121 | 1 |
|            | 180.861291 | 161.373246 | 180.861291 | 1 |
|            | 177.657392 | 174.1486   | 177.657392 | 1 |
|            | 208.353679 | 152.085191 | 208.353679 | 1 |
|            | 192.519786 | 160.461068 | 192.519786 | 1 |
|            | 188.80907  | 159.233887 | 188.80907  | 1 |
|            | 193.321642 | 154.512075 | 193.321642 | 1 |
|            | 181.878709 | 160.096009 | 181.878709 | 1 |
|            | 185.419577 | 152.189396 | 185.419577 | 1 |
|            | 177.503801 | 156.603935 | 177.503801 | 1 |
|            | 167.789124 | 160.577506 | 167.789124 | 1 |
|            | 192.666851 | 155.096118 | 192.666851 | 1 |
|            | 177.111127 | 158.984276 | 177.111127 | 1 |
|            | 166.941248 | 148.239369 | 166.941248 | 1 |
|            | 187.642541 | 157.25519  | 187.642541 | 1 |
|            | 187.842823 | 163.349101 | 187.842823 | 1 |

|            |            |            |   |
|------------|------------|------------|---|
| 184.281549 | 168.59236  | 184.281549 | 1 |
| 184.038816 | 175.119031 | 184.038816 | 1 |
| 173.519032 | 148.002378 | 173.519032 | 1 |
| 187.230983 | 168.245638 | 187.230983 | 1 |
| 185.252878 | 168.331926 | 185.252878 | 1 |
| 190.750387 | 142.811141 | 190.750387 | 1 |
| 152.305523 | 173.3198   | 152.305523 | 1 |
| 184.63815  | 174.814259 | 184.63815  | 1 |
| 194.671377 | 152.806715 | 194.671377 | 1 |
| 162.77417  | 138.303094 | 162.77417  | 1 |
| 180.454941 | 164.220419 | 180.454941 | 1 |
| 193.54033  | 143.725456 | 193.54033  | 1 |
| 196.882041 | 160.347757 | 196.882041 | 1 |
| 182.386651 | 170.864255 | 182.386651 | 1 |
| 181.450508 | 153.994084 | 181.450508 | 1 |
| 198.545416 | 151.69188  | 198.545416 | 1 |
| 179.574152 | 169.019618 | 179.574152 | 1 |
| 173.431015 | 161.755825 | 173.431015 | 1 |
| 189.073756 | 163.752427 | 189.073756 | 1 |
| 179.900933 | 161.451281 | 179.900933 | 1 |
| 190.391932 | 158.753287 | 190.391932 | 1 |
| 184.347044 | 152.944754 | 184.347044 | 1 |
| 194.533634 | 174.016632 | 194.533634 | 1 |
| 178.787985 | 171.627253 | 178.787985 | 1 |
| 170.382821 | 146.588637 | 170.382821 | 1 |
| 164.614124 | 159.291413 | 164.614124 | 1 |
| 154.349339 | 174.967281 | 154.349339 | 1 |
| 181.031879 | 152.930998 | 181.031879 | 1 |
| 182.991919 | 152.295852 | 182.991919 | 1 |
| 179.822126 | 149.893922 | 179.822126 | 1 |
| 182.004992 | 159.143324 | 182.004992 | 1 |
| 182.582328 | 158.451244 | 182.582328 | 1 |
| 194.761736 | 161.526314 | 194.761736 | 1 |
| 180.852845 | 155.804649 | 180.852845 | 1 |
| 168.832633 | 154.39251  | 168.832633 | 1 |
| 166.100875 | 178.106675 | 166.100875 | 1 |
| 181.914532 | 166.550954 | 181.914532 | 1 |
| 189.510813 | 154.51386  | 189.510813 | 1 |
| 164.912074 | 161.026501 | 164.912074 | 1 |
| 173.900383 | 179.72212  | 173.900383 | 1 |
| 185.235324 | 142.609916 | 185.235324 | 1 |
| 177.83239  | 159.580291 | 177.83239  | 1 |
| 176.564202 | 159.975898 | 176.564202 | 1 |
| 178.36524  | 149.738444 | 178.36524  | 1 |
| 175.603298 | 157.626719 | 175.603298 | 1 |
| 171.973777 | 161.389458 | 171.973777 | 1 |
| 186.447965 | 152.277299 | 186.447965 | 1 |
| 180.588227 | 170.824306 | 180.588227 | 1 |
| 192.634518 | 163.170805 | 192.634518 | 1 |
| 182.621891 | 136.018808 | 182.621891 | 1 |

|            |            |            |   |
|------------|------------|------------|---|
| 180.571367 | 148.916443 | 180.571367 | 1 |
| 182.269542 | 160.326327 | 182.269542 | 1 |
| 182.144907 | 170.167446 | 182.144907 | 1 |
| 179.92541  | 165.997663 | 179.92541  | 1 |
| 167.761657 | 146.76883  | 167.761657 | 1 |
| 182.353613 | 161.160402 | 182.353613 | 1 |
| 181.482215 | 154.250493 | 181.482215 | 1 |
| 187.524238 | 127.9334   | 187.524238 | 1 |
| 172.638232 | 173.747967 | 172.638232 | 1 |
| 186.164248 | 173.52123  | 186.164248 | 1 |
| 182.191109 | 156.429176 | 182.191109 | 1 |
| 181.143462 | 152.322591 | 181.143462 | 1 |
| 188.681241 | 176.968534 | 188.681241 | 1 |
| 198.028368 | 159.853503 | 198.028368 | 1 |
| 166.9161   | 146.518742 | 166.9161   | 1 |
| 167.657475 | 171.275051 | 167.657475 | 1 |
| 185.600327 | 166.058212 | 185.600327 | 1 |
| 191.906991 | 156.322981 | 191.906991 | 1 |
| 171.217965 | 176.254444 | 171.217965 | 1 |
| 158.546202 | 185.733607 | 158.546202 | 1 |
| 171.018217 | 148.455079 | 171.018217 | 1 |
| 182.019829 | 152.42591  | 182.019829 | 1 |
| 184.290769 | 144.844862 | 184.290769 | 1 |
| 170.15065  | 168.600114 | 170.15065  | 1 |
| 171.40764  | 153.082429 | 171.40764  | 1 |
| 184.616857 | 147.784281 | 184.616857 | 1 |
| 181.215869 | 177.616549 | 181.215869 | 1 |
| 174.599011 | 161.335411 | 174.599011 | 1 |
| 181.024955 | 156.972861 | 181.024955 | 1 |
| 170.584956 | 159.786939 | 170.584956 | 1 |
| 171.04682  | 163.964226 | 171.04682  | 1 |
| 190.465715 | 156.252495 | 190.465715 | 1 |
| 196.265903 | 150.974629 | 196.265903 | 1 |
| 173.279334 | 174.993111 | 173.279334 | 1 |
| 178.28068  | 157.334544 | 178.28068  | 1 |
| 181.127296 | 147.228352 | 181.127296 | 1 |
| 198.4481   | 160.922728 | 198.4481   | 1 |
| 185.950119 | 162.153524 | 185.950119 | 1 |
| 196.548029 | 169.124687 | 196.548029 | 1 |
| 181.770582 | 148.86683  | 181.770582 | 1 |
| 195.601836 | 150.999891 | 195.601836 | 1 |
| 173.562392 | 158.452017 | 173.562392 | 1 |
| 170.339006 | 168.338407 | 170.339006 | 1 |
| 191.93971  | 168.80907  | 191.93971  | 1 |
| 189.187511 | 163.148284 | 189.187511 | 1 |
| 162.706322 | 166.951632 | 162.706322 | 1 |
| 192.719943 | 167.212134 | 192.719943 | 1 |
| 178.002033 | 164.055414 | 178.002033 | 1 |
| 168.650984 | 155.121993 | 168.650984 | 1 |
| 161.20993  | 162.238153 | 161.20993  | 1 |



|            |            |            |   |
|------------|------------|------------|---|
| 171.751133 | 168.593474 | 171.751133 | 1 |
| 184.733761 | 152.224639 | 184.733761 | 1 |
| 189.177006 | 165.574395 | 189.177006 | 1 |
| 179.305214 | 167.322706 | 179.305214 | 1 |
| 179.461579 | 154.294672 | 179.461579 | 1 |
| 182.146476 | 154.758537 | 182.146476 | 1 |
| 176.479687 | 151.268487 | 176.479687 | 1 |
| 189.281234 | 154.862696 | 189.281234 | 1 |
| 175.05726  | 154.737459 | 175.05726  | 1 |
| 203.434768 | 166.460209 | 203.434768 | 1 |
| 187.440235 | 156.129122 | 187.440235 | 1 |
| 186.106075 | 161.765147 | 186.106075 | 1 |
| 170.189099 | 166.245864 | 170.189099 | 1 |
| 188.716961 | 156.722829 | 188.716961 | 1 |
| 194.472334 | 166.748496 | 194.472334 | 1 |
| 172.686298 | 151.651839 | 172.686298 | 1 |
| 176.988879 | 151.476034 | 176.988879 | 1 |
| 166.603643 | 155.374628 | 166.603643 | 1 |
| 193.53078  | 163.374998 | 193.53078  | 1 |
| 190.451186 | 147.264573 | 190.451186 | 1 |
| 181.843682 | 163.307059 | 181.843682 | 1 |
| 158.088817 | 155.555231 | 158.088817 | 1 |
| 185.055426 | 162.747197 | 185.055426 | 1 |
| 185.262541 | 159.038084 | 185.262541 | 1 |
| 192.161058 | 170.659483 | 192.161058 | 1 |
| 170.417996 | 151.624713 | 170.417996 | 1 |
| 192.055966 | 172.33434  | 192.055966 | 1 |
| 174.380869 | 152.108178 | 174.380869 | 1 |
| 172.663288 | 171.241877 | 172.663288 | 1 |
| 162.753889 | 147.441606 | 162.753889 | 1 |
| 193.746012 | 145.710519 | 193.746012 | 1 |
| 170.346328 | 168.798929 | 170.346328 | 1 |
| 195.458727 | 148.030595 | 195.458727 | 1 |
| 168.327522 | 168.742722 | 168.327522 | 1 |
| 175.909673 | 137.337939 | 175.909673 | 1 |
| 166.921489 | 166.090409 | 166.921489 | 1 |
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| 180.28806  | 161.740295 | 180.28806  | 1 |
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| 189.763971 | 163.535786 | 189.763971 | 1 |
| 199.492018 | 176.358536 | 199.492018 | 1 |
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| 169.703429 | 156.764768 | 169.703429 | 1 |
| 174.306359 | 162.564923 | 174.306359 | 1 |
| 188.475661 | 162.490674 | 188.475661 | 1 |
| 188.723691 | 147.59331  | 188.723691 | 1 |
| 185.107654 | 176.040303 | 185.107654 | 1 |
| 165.139721 | 152.769017 | 165.139721 | 1 |
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| 178.561862 | 148.567561 | 178.561862 | 1 |

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| 173.724362 | 152.697281 | 173.724362 | 1 |
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| 171.617096 | 155.567043 | 171.617096 | 1 |
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| 177.678628 | 149.828689 | 177.678628 | 1 |
| 195.18415  | 153.816323 | 195.18415  | 1 |
| 166.825514 | 158.749445 | 166.825514 | 1 |
| 170.645551 | 169.73198  | 170.645551 | 1 |
| 178.326462 | 172.288638 | 178.326462 | 1 |
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| 165.659406 | 172.726832 | 165.659406 | 1 |
| 158.367123 | 151.877337 | 158.367123 | 1 |
| 185.808261 | 165.343531 | 185.808261 | 1 |
| 176.611234 | 146.43666  | 176.611234 | 1 |
| 184.126116 | 157.332952 | 184.126116 | 1 |
| 159.51054  | 157.225791 | 159.51054  | 1 |
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| 160.513076 | 166.678533 | 160.513076 | 1 |
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| 181.347769 | 170.106078 | 181.347769 | 1 |
| 197.355433 | 149.028856 | 197.355433 | 1 |
| 174.934137 | 156.334441 | 174.934137 | 1 |
| 172.053756 | 148.31845  | 172.053756 | 1 |
| 172.532503 | 172.181908 | 172.532503 | 1 |
| 185.867219 | 172.198007 | 185.867219 | 1 |
| 192.839382 | 142.222289 | 192.839382 | 1 |
| 165.646537 | 159.456213 | 165.646537 | 1 |
| 189.692758 | 180.872358 | 189.692758 | 1 |
| 195.876321 | 141.672227 | 195.876321 | 1 |
| 173.331016 | 162.097181 | 173.331016 | 1 |
| 180.831346 | 149.551452 | 180.831346 | 1 |
| 171.716686 | 155.395046 | 171.716686 | 1 |
| 186.95552  | 149.923208 | 186.95552  | 1 |
| 182.392164 | 150.910055 | 182.392164 | 1 |
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| 169.702133 | 150.416791 | 169.702133 | 1 |
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| 187.245899 | 151.096956 | 187.245899 | 1 |
| 179.90323  | 169.730752 | 179.90323  | 1 |
| 190.022291 | 140.207849 | 190.022291 | 1 |
| 169.860726 | 135.374158 | 169.860726 | 1 |
| 187.586323 | 143.948601 | 187.586323 | 1 |
| 192.416604 | 159.484555 | 192.416604 | 1 |
| 168.304808 | 155.709231 | 168.304808 | 1 |
| 183.965056 | 157.086388 | 183.965056 | 1 |
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| 180.792966 | 161.185822 | 180.792966 | 1 |

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| 190.353938 | 152.890685 | 190.353938 | 1 |
| 181.051103 | 159.879515 | 181.051103 | 1 |
| 172.38305  | 139.073255 | 172.38305  | 1 |
| 185.784727 | 155.433291 | 185.784727 | 1 |
| 184.643255 | 139.900349 | 184.643255 | 1 |
| 187.287736 | 170.879444 | 187.287736 | 1 |
| 170.509605 | 165.191498 | 170.509605 | 1 |
| 185.966558 | 149.685216 | 185.966558 | 1 |
| 196.107151 | 155.44093  | 196.107151 | 1 |
| 182.342608 | 158.755607 | 182.342608 | 1 |
| 176.147244 | 173.417002 | 176.147244 | 1 |
| 182.487525 | 151.260643 | 182.487525 | 1 |
| 198.182072 | 155.949565 | 198.182072 | 1 |
| 155.991705 | 159.551187 | 155.991705 | 1 |
| 180.167915 | 143.367161 | 180.167915 | 1 |
| 178.769476 | 162.440208 | 178.769476 | 1 |
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| 192.360579 | 170.407689 | 192.360579 | 1 |
| 196.35558  | 172.690793 | 196.35558  | 1 |
| 161.80997  | 147.31605  | 161.80997  | 1 |
| 188.039956 | 164.187837 | 188.039956 | 1 |
| 183.668833 | 155.762846 | 183.668833 | 1 |
| 187.422091 | 148.792592 | 187.422091 | 1 |
| 184.839285 | 150.364586 | 184.839285 | 1 |
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| 196.593322 | 148.069658 | 196.593322 | 1 |
| 184.54379  | 171.846601 | 184.54379  | 1 |
| 179.688225 | 171.492943 | 179.688225 | 1 |
| 179.793818 | 179.004437 | 179.793818 | 1 |
| 179.475358 | 148.632021 | 179.475358 | 1 |
| 163.171801 | 168.625625 | 163.171801 | 1 |
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| 181.927788 | 153.16093  | 181.927788 | 1 |
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| 193.214662 | 158.857311 | 193.214662 | 1 |
| 199.023082 | 147.42137  | 199.023082 | 1 |
| 166.894454 | 174.793659 | 166.894454 | 1 |
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| 177.842565 | 154.865311 | 177.842565 | 1 |
| 172.579933 | 167.20122  | 172.579933 | 1 |
| 187.392896 | 142.423014 | 187.392896 | 1 |
| 203.317261 | 147.585034 | 203.317261 | 1 |
| 193.494582 | 149.002276 | 193.494582 | 1 |
| 181.797014 | 148.22716  | 181.797014 | 1 |
| 175.267092 | 150.242191 | 175.267092 | 1 |
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| 169.019079 | 168.155689 | 169.019079 | 1 |

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| 177.413727 | 176.509057 | 177.413727 | 1 |
| 186.394384 | 138.983578 | 186.394384 | 1 |
| 167.259412 | 163.779519 | 167.259412 | 1 |
| 185.191498 | 155.534949 | 185.191498 | 1 |
| 189.765199 | 172.501368 | 189.765199 | 1 |
| 171.361051 | 174.680381 | 171.361051 | 1 |
| 183.714695 | 158.651469 | 183.714695 | 1 |
| 185.309153 | 143.873249 | 185.309153 | 1 |
| 189.755354 | 151.054801 | 189.755354 | 1 |
| 177.732812 | 149.014873 | 177.732812 | 1 |
| 182.330808 | 148.47145  | 182.330808 | 1 |
| 175.808821 | 159.952183 | 175.808821 | 1 |
| 185.101549 | 154.270343 | 185.101549 | 1 |
| 195.769365 | 175.512023 | 195.769365 | 1 |
| 178.410192 | 153.104757 | 178.410192 | 1 |
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| 170.786796 | 149.009279 | 170.786796 | 1 |
| 187.297717 | 158.269027 | 187.297717 | 1 |
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| 173.681456 | 177.27667  | 173.681456 | 1 |
| 171.675656 | 158.702401 | 171.675656 | 1 |
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| 182.229524 | 189.947842 | 182.229524 | 1 |
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| 205.994086 | 173.187241 | 205.994086 | 1 |
| 174.207133 | 170.764029 | 174.207133 | 1 |
| 172.154062 | 154.020641 | 172.154062 | 1 |
| 192.124292 | 149.963794 | 192.124292 | 1 |
| 176.954443 | 167.073913 | 176.954443 | 1 |
| 165.836803 | 167.493816 | 165.836803 | 1 |
| 191.194516 | 143.748421 | 191.194516 | 1 |
| 167.116894 | 158.15243  | 167.116894 | 1 |
| 176.015913 | 164.619415 | 176.015913 | 1 |
| 165.61434  | 153.903134 | 165.61434  | 1 |
| 169.016283 | 160.876639 | 169.016283 | 1 |
| 186.062805 | 170.950225 | 186.062805 | 1 |
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| 162.508416 | 148.280524 | 162.508416 | 1 |
| 200.372318 | 148.228683 | 200.372318 | 1 |
| 182.403181 | 164.672245 | 182.403181 | 1 |
| 194.272496 | 151.446293 | 194.272496 | 1 |
| 179.730312 | 176.443664 | 179.730312 | 1 |
| 177.614134 | 162.48674  | 177.614134 | 1 |
| 180.290356 | 179.027721 | 180.290356 | 1 |
| 161.480141 | 153.515257 | 161.480141 | 1 |
| 173.10088  | 162.404761 | 173.10088  | 1 |
| 193.827139 | 152.948665 | 193.827139 | 1 |
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| 175.603298 | 157.064037 | 175.603298 | 1 |

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| 173.950064 | 167.388871 | 173.950064 | 1 |
| 168.539571 | 173.306817 | 168.539571 | 1 |
| 192.488022 | 176.688    | 192.488022 | 1 |
| 204.705878 | 173.61534  | 204.705878 | 1 |
| 189.158362 | 169.966834 | 189.158362 | 1 |
| 179.008878 | 170.849089 | 179.008878 | 1 |
| 171.409845 | 151.48813  | 171.409845 | 1 |
| 179.152533 | 146.116927 | 179.152533 | 1 |
| 177.45246  | 181.016422 | 177.45246  | 1 |
| 176.050667 | 157.574764 | 176.050667 | 1 |
| 188.706911 | 173.749923 | 188.706911 | 1 |
| 177.162126 | 148.714853 | 177.162126 | 1 |
| 183.441482 | 160.119724 | 183.441482 | 1 |
| 187.971448 | 142.767395 | 187.971448 | 1 |
| 182.406341 | 168.087602 | 182.406341 | 1 |
| 163.705311 | 173.355157 | 163.705311 | 1 |
| 180.269688 | 163.161153 | 180.269688 | 1 |
| 186.502682 | 154.447035 | 186.502682 | 1 |
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| 163.505859 | 158.36059  | 163.505859 | 1 |
| 164.023043 | 159.035776 | 164.023043 | 1 |
| 171.873074 | 168.136499 | 171.873074 | 1 |
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| 173.878248 | 153.287952 | 173.878248 | 1 |
| 200.628704 | 161.384058 | 200.628704 | 1 |
| 177.830821 | 174.520447 | 177.830821 | 1 |
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| 192.395139 | 142.56817  | 192.395139 | 1 |
| 175.414601 | 164.088656 | 175.414601 | 1 |
| 161.5519   | 160.519276 | 161.5519   | 1 |
| 170.984975 | 166.162395 | 170.984975 | 1 |
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| 159.254244 | 153.973006 | 159.254244 | 1 |
| 173.17638  | 138.997494 | 173.17638  | 1 |
| 181.528633 | 162.282104 | 181.528633 | 1 |
| 181.415731 | 163.17724  | 181.415731 | 1 |
| 179.26381  | 153.520919 | 179.26381  | 1 |
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| 194.696116 | 157.930968 | 194.696116 | 1 |
| 188.379629 | 176.30624  | 188.379629 | 1 |
| 166.685771 | 156.609608 | 166.685771 | 1 |
| 175.258531 | 162.474906 | 175.258531 | 1 |
| 177.396321 | 157.328996 | 177.396321 | 1 |
| 170.651463 | 151.318759 | 170.651463 | 1 |
| 178.01139  | 167.413018 | 178.01139  | 1 |
| 181.498461 | 134.094681 | 181.498461 | 1 |
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| 188.41992  | 164.01476  | 188.41992  | 1 |

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| 178.258158 | 163.93859  | 178.258158 | 1 |
| 187.062113 | 162.46938  | 187.062113 | 1 |
| 172.44933  | 161.946489 | 172.44933  | 1 |
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| 167.406181 | 142.609916 | 167.406181 | 1 |
| 202.835047 | 152.228777 | 202.835047 | 1 |
| 188.281154 | 162.43391  | 188.281154 | 1 |
| 168.753802 | 158.13142  | 168.753802 | 1 |
| 194.922853 | 159.258432 | 194.922853 | 1 |
| 177.27504  | 179.009076 | 177.27504  | 1 |
| 165.786553 | 156.344252 | 165.786553 | 1 |
| 175.677331 | 164.012259 | 175.677331 | 1 |
| 182.763875 | 160.577506 | 182.763875 | 1 |
| 172.916264 | 166.32042  | 172.916264 | 1 |
| 185.8654   | 170.069175 | 185.8654   | 1 |
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| 185.280117 | 167.154699 | 185.280117 | 1 |
| 160.762368 | 159.64765  | 160.762368 | 1 |
| 168.895206 | 163.639389 | 168.895206 | 1 |
| 194.860279 | 154.882762 | 194.860279 | 1 |
| 182.070601 | 147.436559 | 182.070601 | 1 |
| 188.940629 | 154.896712 | 188.940629 | 1 |
| 167.769752 | 160.367663 | 167.769752 | 1 |
| 167.322894 | 147.953515 | 167.322894 | 1 |
| 177.521945 | 149.395701 | 177.521945 | 1 |
| 178.12519  | 160.539194 | 178.12519  | 1 |
| 190.154645 | 163.12981  | 190.154645 | 1 |
| 190.157191 | 152.036965 | 190.157191 | 1 |
| 177.100758 | 159.657598 | 177.100758 | 1 |
| 185.029369 | 170.659483 | 185.029369 | 1 |
| 189.504811 | 165.484367 | 189.504811 | 1 |
| 172.310245 | 150.108313 | 172.310245 | 1 |
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| 185.046741 | 190.381489 | 185.046741 | 1 |
| 162.784266 | 173.60761  | 162.784266 | 1 |
| 191.994484 | 151.090135 | 191.994484 | 1 |
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| 180.130433 | 148.461036 | 180.130433 | 1 |
| 167.106366 | 151.312075 | 167.106366 | 1 |
| 180.183991 | 167.009203 | 180.183991 | 1 |
| 194.784518 | 158.049611 | 194.784518 | 1 |
| 181.637864 | 169.30952  | 181.637864 | 1 |
| 192.62772  | 159.915462 | 192.62772  | 1 |
| 190.560098 | 150.40831  | 190.560098 | 1 |
| 183.690934 | 163.137848 | 183.690934 | 1 |
| 172.398375 | 166.013238 | 172.398375 | 1 |
| 175.590656 | 171.916336 | 175.590656 | 1 |
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| 184.546337 | 145.437717 | 184.546337 | 1 |

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| 187.031713 | 180.641528 | 187.031713 | 1 |
| 170.570632 | 151.457321 | 170.570632 | 1 |
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| 179.476131 | 149.653907 | 179.476131 | 1 |
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| 173.268784 | 154.431857 | 173.268784 | 1 |
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| 169.321577 | 146.878174 | 169.321577 | 1 |
| 185.373568 | 152.043263 | 185.373568 | 1 |
| 164.025771 | 172.16747  | 164.025771 | 1 |
| 194.542456 | 185.609916 | 194.542456 | 1 |
| 196.211561 | 147.907563 | 196.211561 | 1 |
| 173.385381 | 158.538669 | 173.385381 | 1 |
| 192.799364 | 173.109161 | 192.799364 | 1 |
| 187.004314 | 150.227388 | 187.004314 | 1 |
| 189.242467 | 176.859804 | 189.242467 | 1 |
| 169.045591 | 170.055214 | 169.045591 | 1 |
| 192.66003  | 139.706354 | 192.66003  | 1 |
| 175.663052 | 162.447302 | 175.663052 | 1 |
| 192.499709 | 147.451702 | 192.499709 | 1 |
| 164.044916 | 164.500578 | 164.044916 | 1 |
| 171.019376 | 168.355755 | 171.019376 | 1 |
| 210.157389 | 147.074671 | 210.157389 | 1 |
| 175.731025 | 150.65858  | 175.731025 | 1 |
| 175.842211 | 160.552984 | 175.842211 | 1 |
| 186.701498 | 165.98211  | 186.701498 | 1 |
| 176.886254 | 176.467357 | 176.886254 | 1 |
| 162.60646  | 161.876367 | 162.60646  | 1 |
| 180.495527 | 172.639612 | 180.495527 | 1 |
| 189.004702 | 161.621584 | 189.004702 | 1 |
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| 184.475191 | 166.850678 | 184.475191 | 1 |
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| 184.470962 | 147.883689 | 184.470962 | 1 |
| 180.82905  | 142.616873 | 180.82905  | 1 |
| 174.553821 | 159.512897 | 174.553821 | 1 |
| 182.837078 | 155.291887 | 182.837078 | 1 |
| 179.803777 | 156.006795 | 179.803777 | 1 |
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| 209.05872  | 157.022474 | 209.05872  | 1 |
| 161.672227 | 143.856378 | 161.672227 | 1 |
| 181.380965 | 159.783108 | 181.380965 | 1 |
| 196.806189 | 162.559386 | 196.806189 | 1 |
| 189.645146 | 151.112873 | 189.645146 | 1 |
| 181.956619 | 163.125797 | 181.956619 | 1 |
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| 190.166173 | 150.801984 | 190.166173 | 1 |

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| 172.224639 | 153.239976 | 172.224639 | 1 |
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| 168.455079 | 169.236601 | 168.455079 | 1 |
| 154.831735 | 159.703527 | 154.831735 | 1 |
| 168.022773 | 160.826742 | 168.022773 | 1 |
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| 188.026223 | 147.444971 | 188.026223 | 1 |
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| 167.402771 | 147.470164 | 167.402771 | 1 |
| 161.267774 | 167.18635  | 161.267774 | 1 |
| 175.121129 | 160.168689 | 175.121129 | 1 |
| 176.282031 | 167.681524 | 176.282031 | 1 |
| 189.71113  | 182.280074 | 189.71113  | 1 |
| 173.57367  | 151.87628  | 173.57367  | 1 |
| 190.274493 | 166.685241 | 190.274493 | 1 |
| 183.01352  | 168.16317  | 183.01352  | 1 |
| 188.970324 | 155.915505 | 188.970324 | 1 |
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| 186.224491 | 162.094055 | 186.224491 | 1 |
| 182.79806  | 144.629085 | 182.79806  | 1 |
| 178.244948 | 166.121752 | 178.244948 | 1 |
| 184.040476 | 168.96232  | 184.040476 | 1 |
| 174.596362 | 162.119862 | 174.596362 | 1 |
| 188.22738  | 169.850601 | 188.22738  | 1 |
| 179.019633 | 183.756547 | 179.019633 | 1 |
| 173.073675 | 159.870329 | 173.073675 | 1 |
| 171.57244  | 159.144086 | 171.57244  | 1 |
| 197.725915 | 159.586407 | 197.725915 | 1 |
| 184.041294 | 136.256368 | 184.041294 | 1 |
| 180.675618 | 146.38466  | 180.675618 | 1 |
| 190.422173 | 152.521361 | 190.422173 | 1 |
| 170.613514 | 150.712877 | 170.613514 | 1 |
| 180.533066 | 152.764037 | 180.533066 | 1 |
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| 185.113748 | 148.729292 | 185.113748 | 1 |
| 198.071296 | 146.757803 | 198.071296 | 1 |
| 175.833036 | 166.957475 | 175.833036 | 1 |
| 194.925172 | 180.495645 | 194.925172 | 1 |
| 186.050868 | 161.197373 | 186.050868 | 1 |
| 196.048625 | 181.902815 | 196.048625 | 1 |
| 200.228163 | 151.120808 | 200.228163 | 1 |
| 189.11657  | 165.605693 | 189.11657  | 1 |
| 199.890649 | 152.134269 | 199.890649 | 1 |
| 179.4723   | 161.628564 | 179.4723   | 1 |
| 180.174805 | 149.876051 | 180.174805 | 1 |
| 195.271962 | 155.506187 | 195.271962 | 1 |
| 173.271661 | 173.498357 | 173.271661 | 1 |
| 181.71467  | 161.930903 | 181.71467  | 1 |



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| 179.789225 | 159.004262 | 179.789225 | 1 |
| 194.061743 | 147.042861 | 194.061743 | 1 |
| 183.266678 | 125.12779  | 183.266678 | 1 |
| 180.781461 | 152.780931 | 180.781461 | 1 |
| 172.259768 | 142.77417  | 172.259768 | 1 |
| 160.786652 | 161.523222 | 160.786652 | 1 |
| 174.388031 | 153.514325 | 174.388031 | 1 |
| 163.520775 | 165.068466 | 163.520775 | 1 |
| 190.625808 | 158.651469 | 190.625808 | 1 |
| 179.905526 | 161.8538   | 179.905526 | 1 |
| 191.746874 | 170.451186 | 191.746874 | 1 |
| 191.266388 | 146.872763 | 191.266388 | 1 |
| 188.914412 | 158.948897 | 188.914412 | 1 |
| 186.087657 | 162.959132 | 186.087657 | 1 |
| 187.80957  | 155.517192 | 187.80957  | 1 |
| 182.900833 | 156.040742 | 182.900833 | 1 |
| 179.226975 | 152.144694 | 179.226975 | 1 |
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| 173.397751 | 179.590152 | 173.397751 | 1 |
| 178.795693 | 166.781192 | 178.795693 | 1 |
| 198.670744 | 167.600602 | 198.670744 | 1 |
| 179.986608 | 165.497714 | 179.986608 | 1 |
| 195.155138 | 150.771585 | 195.155138 | 1 |
| 172.744142 | 162.516731 | 172.744142 | 1 |
| 197.331331 | 159.060367 | 197.331331 | 1 |
| 167.475189 | 149.521052 | 167.475189 | 1 |
| 184.012259 | 168.4965   | 184.012259 | 1 |
| 184.648359 | 162.84424  | 184.648359 | 1 |
| 169.22367  | 163.966704 | 169.22367  | 1 |
| 205.260306 | 152.609105 | 205.260306 | 1 |
| 185.923653 | 161.134993 | 185.923653 | 1 |
| 169.672187 | 160.560647 | 169.672187 | 1 |
| 165.413342 | 150.501215 | 165.413342 | 1 |
| 163.496946 | 175.281785 | 163.496946 | 1 |
| 175.561132 | 163.750779 | 175.561132 | 1 |
| 163.981797 | 161.821127 | 163.981797 | 1 |
| 167.293791 | 173.401973 | 167.293791 | 1 |
| 162.113513 | 152.049561 | 162.113513 | 1 |
| 172.974153 | 170.950225 | 172.974153 | 1 |
| 176.99528  | 151.760819 | 176.99528  | 1 |
| 190.644658 | 172.185137 | 190.644658 | 1 |
| 187.368794 | 159.031161 | 187.368794 | 1 |
| 178.502312 | 148.444642 | 178.502312 | 1 |
| 178.463625 | 166.366258 | 178.463625 | 1 |
| 170.970036 | 156.282031 | 170.970036 | 1 |
| 193.172667 | 169.840664 | 193.172667 | 1 |
| 190.126496 | 166.958453 | 190.126496 | 1 |
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| 196.853483 | 148.136415 | 196.853483 | 1 |

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| 170.341439 | 172.157852 | 170.341439 | 1 |
| 188.04207  | 165.479035 | 188.04207  | 1 |
| 194.535863 | 167.477615 | 194.535863 | 1 |
| 183.450407 | 166.792743 | 183.450407 | 1 |
| 173.113488 | 161.381738 | 173.113488 | 1 |
| 177.945031 | 163.931973 | 177.945031 | 1 |
| 187.052313 | 149.636899 | 187.052313 | 1 |
| 161.484416 | 169.850601 | 161.484416 | 1 |
| 171.540767 | 146.011903 | 171.540767 | 1 |
| 183.452033 | 157.538498 | 183.452033 | 1 |
| 176.21225  | 171.346106 | 176.21225  | 1 |
| 168.029049 | 172.458054 | 168.029049 | 1 |
| 182.49936  | 170.209874 | 182.49936  | 1 |
| 187.536437 | 160.509317 | 187.536437 | 1 |
| 162.910822 | 163.561854 | 162.910822 | 1 |
| 175.64792  | 149.517073 | 175.64792  | 1 |
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| 184.025537 | 161.108822 | 184.025537 | 1 |
| 177.904388 | 156.37123  | 177.904388 | 1 |
| 174.914992 | 168.95775  | 174.914992 | 1 |
| 181.746503 | 162.51199  | 181.746503 | 1 |
| 170.342667 | 166.182768 | 170.342667 | 1 |
| 170.640799 | 160.918124 | 170.640799 | 1 |
| 175.993539 | 141.913015 | 175.993539 | 1 |
| 199.193976 | 166.347523 | 199.193976 | 1 |
| 161.659903 | 166.016899 | 161.659903 | 1 |
| 178.592762 | 173.240356 | 178.592762 | 1 |
| 183.714695 | 148.265313 | 183.714695 | 1 |
| 182.704314 | 147.813271 | 182.704314 | 1 |
| 195.601836 | 143.828138 | 195.601836 | 1 |
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| 182.852198 | 154.013319 | 182.852198 | 1 |
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| 171.470531 | 158.578858 | 171.470531 | 1 |
| 177.853524 | 165.866309 | 177.853524 | 1 |
| 174.687323 | 166.912705 | 174.687323 | 1 |
| 167.20757  | 143.973521 | 167.20757  | 1 |
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| 184.230458 | 158.803389 | 184.230458 | 1 |
| 178.665362 | 155.013127 | 178.665362 | 1 |
| 184.839285 | 156.338533 | 184.839285 | 1 |
| 183.486161 | 140.934717 | 183.486161 | 1 |
| 203.248322 | 144.439364 | 203.248322 | 1 |
| 171.361051 | 170.569465 | 171.361051 | 1 |
| 183.768855 | 152.510243 | 183.768855 | 1 |
| 158.806227 | 144.772103 | 158.806227 | 1 |
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| 189.831979 | 153.857023 | 189.831979 | 1 |

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| 176.488634 | 158.394696 | 176.488634 | 1 |
| 174.091831 | 174.853322 | 174.091831 | 1 |
| 176.346708 | 159.361955 | 176.346708 | 1 |
| 188.46253  | 147.561864 | 188.46253  | 1 |
| 178.742499 | 171.855855 | 178.742499 | 1 |
| 198.154151 | 164.256412 | 198.154151 | 1 |
| 175.593191 | 148.116292 | 175.593191 | 1 |
| 168.34262  | 159.453144 | 168.34262  | 1 |
| 186.391565 | 156.899101 | 186.391565 | 1 |
| 178.975807 | 168.993243 | 178.975807 | 1 |
| 178.334999 | 155.711744 | 178.334999 | 1 |
| 163.864791 | 144.104761 | 163.864791 | 1 |
| 171.824029 | 153.336746 | 171.824029 | 1 |
| 174.306359 | 159.918532 | 174.306359 | 1 |
| 172.120706 | 188.905924 | 172.120706 | 1 |
| 166.852799 | 146.304965 | 166.852799 | 1 |
| 178.814178 | 164.452386 | 178.814178 | 1 |
| 190.972553 | 190.791853 | 190.972553 | 1 |
| 173.415827 | 156.45363  | 173.415827 | 1 |
| 178.938119 | 175.073601 | 178.938119 | 1 |
| 179.274542 | 164.20705  | 179.274542 | 1 |
| 188.898496 | 156.245924 | 188.898496 | 1 |
| 177.554278 | 159.868805 | 177.554278 | 1 |
| 204.990732 | 157.375744 | 204.990732 | 1 |
| 156.165418 | 155.416306 | 156.165418 | 1 |
| 180.007265 | 155.48163  | 180.007265 | 1 |
| 172.756079 | 158.297756 | 172.756079 | 1 |
| 178.760234 | 171.936572 | 178.760234 | 1 |
| 193.218323 | 156.874203 | 193.218323 | 1 |
| 183.609989 | 156.664656 | 183.609989 | 1 |
| 176.899908 | 158.211536 | 176.899908 | 1 |
| 167.456727 | 154.136408 | 167.456727 | 1 |
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| 192.037003 | 152.723224 | 192.037003 | 1 |
| 174.5014   | 166.437608 | 174.5014   | 1 |
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| 180.337036 | 150.23355  | 180.337036 | 1 |
| 174.23153  | 167.946244 | 174.23153  | 1 |
| 191.041243 | 152.683297 | 191.041243 | 1 |
| 180.90813  | 141.801921 | 180.90813  | 1 |
| 179.985846 | 159.588704 | 179.985846 | 1 |
| 179.195518 | 153.244774 | 179.195518 | 1 |
| 168.629111 | 145.018667 | 168.629111 | 1 |
| 180.799878 | 157.4248   | 180.799878 | 1 |
| 178.23408  | 150.166793 | 178.23408  | 1 |
| 168.289642 | 167.327708 | 168.289642 | 1 |
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| 186.192954 | 160.944237 | 186.192954 | 1 |

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| 190.520102 | 155.753637 | 190.520102 | 1 |
| 186.909795 | 171.689121 | 186.909795 | 1 |
| 184.937556 | 169.017322 | 184.937556 | 1 |
| 170.025617 | 164.300841 | 170.025617 | 1 |
| 191.066595 | 160.832119 | 191.066595 | 1 |
| 167.034016 | 178.142237 | 167.034016 | 1 |
| 186.659434 | 152.430003 | 186.659434 | 1 |
| 165.210889 | 155.457051 | 165.210889 | 1 |
| 191.183079 | 153.427218 | 191.183079 | 1 |
| 194.809666 | 164.363858 | 194.809666 | 1 |
| 182.583113 | 162.884087 | 182.583113 | 1 |
| 188.818097 | 155.462986 | 188.818097 | 1 |
| 183.062394 | 166.921459 | 183.062394 | 1 |
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| 162.946974 | 150.818333 | 162.946974 | 1 |
| 189.30952  | 176.512058 | 189.30952  | 1 |
| 190.875283 | 145.081786 | 190.875283 | 1 |
| 182.700358 | 164.716662 | 182.700358 | 1 |
| 175.610051 | 164.325193 | 175.610051 | 1 |
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| 174.442578 | 168.866709 | 174.442578 | 1 |
| 168.438685 | 153.403458 | 168.438685 | 1 |
| 172.385096 | 170.6676   | 172.385096 | 1 |
| 183.591208 | 154.038012 | 183.591208 | 1 |
| 170.413153 | 168.587949 | 170.413153 | 1 |
| 198.502851 | 180.699918 | 198.502851 | 1 |
| 186.559503 | 154.917607 | 186.559503 | 1 |
| 177.799478 | 169.95426  | 177.799478 | 1 |
| 176.480494 | 134.245293 | 176.480494 | 1 |
| 174.738346 | 169.002406 | 174.738346 | 1 |
| 184.414392 | 148.943273 | 184.414392 | 1 |
| 192.560076 | 158.048838 | 192.560076 | 1 |
| 163.816815 | 169.733208 | 163.816815 | 1 |
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| 175.011399 | 148.978448 | 175.011399 | 1 |
| 178.164094 | 157.499845 | 178.164094 | 1 |
| 196.149261 | 157.34564  | 196.149261 | 1 |
| 177.549548 | 166.953564 | 177.549548 | 1 |
| 181.8538   | 180.974767 | 181.8538   | 1 |
| 171.136679 | 170.807844 | 171.136679 | 1 |
| 172.892651 | 162.977526 | 172.892651 | 1 |
| 167.087017 | 160.253613 | 167.087017 | 1 |
| 193.022941 | 169.413861 | 193.022941 | 1 |
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| 167.918682 | 171.353404 | 167.918682 | 1 |
| 199.68483  | 163.409843 | 199.68483  | 1 |
| 163.526686 | 144.536225 | 163.526686 | 1 |
| 196.38773  | 162.735283 | 196.38773  | 1 |
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| 169.881167 | 140.031316 | 169.881167 | 1 |

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| 173.586835 | 160.634213 | 173.586835 | 1 |
| 173.024971 | 154.617599 | 173.024971 | 1 |
| 191.306884 | 170.00335  | 191.306884 | 1 |
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| 192.879605 | 176.115519 | 192.879605 | 1 |
| 171.030813 | 161.754267 | 171.030813 | 1 |
| 175.19423  | 163.191735 | 175.19423  | 1 |
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| 161.668134 | 172.018063 | 161.668134 | 1 |
| 185.43464  | 159.687452 | 185.43464  | 1 |
| 187.131985 | 161.138847 | 187.131985 | 1 |
| 197.660022 | 169.401947 | 197.660022 | 1 |
| 204.334804 | 179.548588 | 204.334804 | 1 |
| 175.72683  | 183.411121 | 175.72683  | 1 |
| 180.899684 | 166.957475 | 180.899684 | 1 |
| 169.451908 | 175.00016  | 169.451908 | 1 |
| 179.672912 | 166.147604 | 179.672912 | 1 |
| 158.097185 | 162.463867 | 158.097185 | 1 |
| 166.45776  | 129.027704 | 166.45776  | 1 |
| 179.407169 | 175.276873 | 179.407169 | 1 |
| 173.442407 | 165.713446 | 173.442407 | 1 |
| 173.648726 | 142.233476 | 173.648726 | 1 |
| 170.153128 | 155.721805 | 170.153128 | 1 |
| 175.71678  | 158.34896  | 175.71678  | 1 |
| 188.961183 | 155.878875 | 188.961183 | 1 |
| 164.270335 | 180.501921 | 164.270335 | 1 |
| 186.862297 | 161.71699  | 186.862297 | 1 |
| 178.79492  | 143.348789 | 178.79492  | 1 |
| 175.306416 | 145.44431  | 175.306416 | 1 |
| 176.697795 | 160.244438 | 176.697795 | 1 |
| 168.984064 | 158.825729 | 168.984064 | 1 |
| 196.548029 | 184.871042 | 196.548029 | 1 |
| 165.979275 | 156.342615 | 165.979275 | 1 |
| 186.597486 | 160.522346 | 186.597486 | 1 |
| 186.532014 | 149.216826 | 186.532014 | 1 |
| 189.03342  | 169.430551 | 189.03342  | 1 |
| 187.08078  | 129.027704 | 187.08078  | 1 |
| 189.756582 | 164.288256 | 189.756582 | 1 |
| 171.338814 | 176.174681 | 171.338814 | 1 |
| 199.060553 | 153.845927 | 199.060553 | 1 |
| 187.826179 | 155.480789 | 187.826179 | 1 |
| 174.780467 | 141.333622 | 174.780467 | 1 |
| 172.113408 | 177.70386  | 172.113408 | 1 |
| 182.482    | 160.388332 | 182.482    | 1 |
| 201.91955  | 170.765393 | 201.91955  | 1 |
| 199.218169 | 151.047957 | 199.218169 | 1 |
| 187.837616 | 160.439627 | 187.837616 | 1 |
| 191.29963  | 175.67455  | 191.29963  | 1 |
| 163.520775 | 170.323902 | 163.520775 | 1 |
| 184.995536 | 167.238941 | 184.995536 | 1 |

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| 172.498078 | 145.028035 | 172.498078 | 1 |
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| 186.259802 | 156.949623 | 186.259802 | 1 |
| 185.988511 | 153.187976 | 185.988511 | 1 |
| 182.452816 | 159.6974   | 182.452816 | 1 |
| 158.681808 | 158.761007 | 158.681808 | 1 |
| 178.777184 | 156.854126 | 178.777184 | 1 |
| 170.70817  | 145.109662 | 170.70817  | 1 |
| 165.958812 | 156.162069 | 165.958812 | 1 |
| 168.714853 | 163.47477  | 168.714853 | 1 |
| 171.824029 | 153.853316 | 171.824029 | 1 |
| 174.069958 | 166.48663  | 174.069958 | 1 |
| 186.086725 | 150.93086  | 186.086725 | 1 |
| 171.239315 | 170.809208 | 171.239315 | 1 |
| 178.598946 | 162.864158 | 178.598946 | 1 |
| 201.6648   | 149.287699 | 201.6648   | 1 |
| 174.666166 | 153.400615 | 174.666166 | 1 |
| 181.043418 | 148.694572 | 181.043418 | 1 |
| 189.127007 | 158.159433 | 189.127007 | 1 |
| 188.004076 | 162.405545 | 188.004076 | 1 |
| 179.06421  | 174.675879 | 179.06421  | 1 |
| 172.674293 | 170.131612 | 172.674293 | 1 |
| 178.406315 | 161.329238 | 178.406315 | 1 |
| 167.989804 | 175.766682 | 167.989804 | 1 |
| 172.070525 | 146.48068  | 172.070525 | 1 |
| 201.016422 | 163.332116 | 201.016422 | 1 |
| 182.077638 | 168.267148 | 182.077638 | 1 |
| 173.689858 | 152.723224 | 173.689858 | 1 |
| 184.745743 | 164.953108 | 184.745743 | 1 |
| 188.676784 | 168.537177 | 188.676784 | 1 |
| 179.494514 | 149.329694 | 179.494514 | 1 |
| 173.575557 | 151.510094 | 173.575557 | 1 |
| 171.832578 | 178.418814 | 171.832578 | 1 |
| 196.749891 | 172.2448   | 196.749891 | 1 |
| 167.438241 | 169.695214 | 167.438241 | 1 |
| 180.951161 | 150.114543 | 180.951161 | 1 |
| 193.139925 | 155.159862 | 193.139925 | 1 |
| 174.891482 | 147.136152 | 174.891482 | 1 |
| 182.137085 | 161.63941  | 182.137085 | 1 |
| 190.850454 | 161.350077 | 190.850454 | 1 |
| 180.964224 | 156.981671 | 180.964224 | 1 |
| 194.1486   | 150.059541 | 194.1486   | 1 |
| 172.343101 | 162.849015 | 172.343101 | 1 |
| 177.135046 | 164.403432 | 177.135046 | 1 |
| 195.91693  | 157.916893 | 195.91693  | 1 |
| 190.540089 | 158.000476 | 190.540089 | 1 |
| 184.205378 | 149.521052 | 184.205378 | 1 |
| 174.144582 | 170.017243 | 174.144582 | 1 |
| 189.508403 | 157.086388 | 189.508403 | 1 |
| 192.983742 | 163.201387 | 192.983742 | 1 |

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| 187.431163 | 164.363858 | 187.431163 | 1 |
| 171.240452 | 172.019655 | 171.240452 | 1 |
| 179.265333 | 153.916026 | 179.265333 | 1 |
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| 167.134424 | 159.381112 | 167.134424 | 1 |
| 169.935895 | 157.864484 | 169.935895 | 1 |
| 170.373112 | 176.452532 | 170.373112 | 1 |
| 191.270708 | 165.215156 | 191.270708 | 1 |
| 171.376603 | 163.62877  | 171.376603 | 1 |
| 180.657974 | 131.603393 | 180.657974 | 1 |
| 175.478242 | 162.084676 | 175.478242 | 1 |
| 193.805266 | 164.435492 | 193.805266 | 1 |
| 181.370927 | 178.571063 | 181.370927 | 1 |
| 187.704148 | 166.146684 | 187.704148 | 1 |
| 165.516752 | 176.843978 | 165.516752 | 1 |
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| 171.356617 | 166.156847 | 171.356617 | 1 |
| 190.724534 | 151.79513  | 190.724534 | 1 |
| 169.172943 | 158.778731 | 169.172943 | 1 |
| 183.658204 | 175.656315 | 183.658204 | 1 |
| 165.801242 | 162.017487 | 165.801242 | 1 |
| 179.506008 | 159.479962 | 179.506008 | 1 |
| 159.894619 | 157.849613 | 159.894619 | 1 |
| 161.342353 | 178.583978 | 161.342353 | 1 |
| 196.828199 | 175.785281 | 196.828199 | 1 |
| 174.128234 | 159.144086 | 174.128234 | 1 |
| 185.320612 | 134.072853 | 185.320612 | 1 |
| 185.344418 | 152.384073 | 185.344418 | 1 |
| 199.935123 | 146.212561 | 199.935123 | 1 |
| 181.088802 | 157.216241 | 181.088802 | 1 |
| 181.022659 | 184.820838 | 181.022659 | 1 |
| 177.138229 | 161.27601  | 177.138229 | 1 |
| 162.887721 | 159.496049 | 162.887721 | 1 |
| 190.346093 | 154.385348 | 190.346093 | 1 |
| 180.485579 | 157.132659 | 180.485579 | 1 |
| 180.28806  | 147.356978 | 180.28806  | 1 |
| 172.784888 | 164.227945 | 172.784888 | 1 |
| 176.139013 | 146.599914 | 176.139013 | 1 |
| 179.754027 | 154.286554 | 179.754027 | 1 |
| 166.814601 | 157.187615 | 166.814601 | 1 |
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| 181.953504 | 171.457473 | 181.953504 | 1 |
| 169.813296 | 172.766463 | 169.813296 | 1 |
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| 182.542004 | 142.847885 | 182.542004 | 1 |
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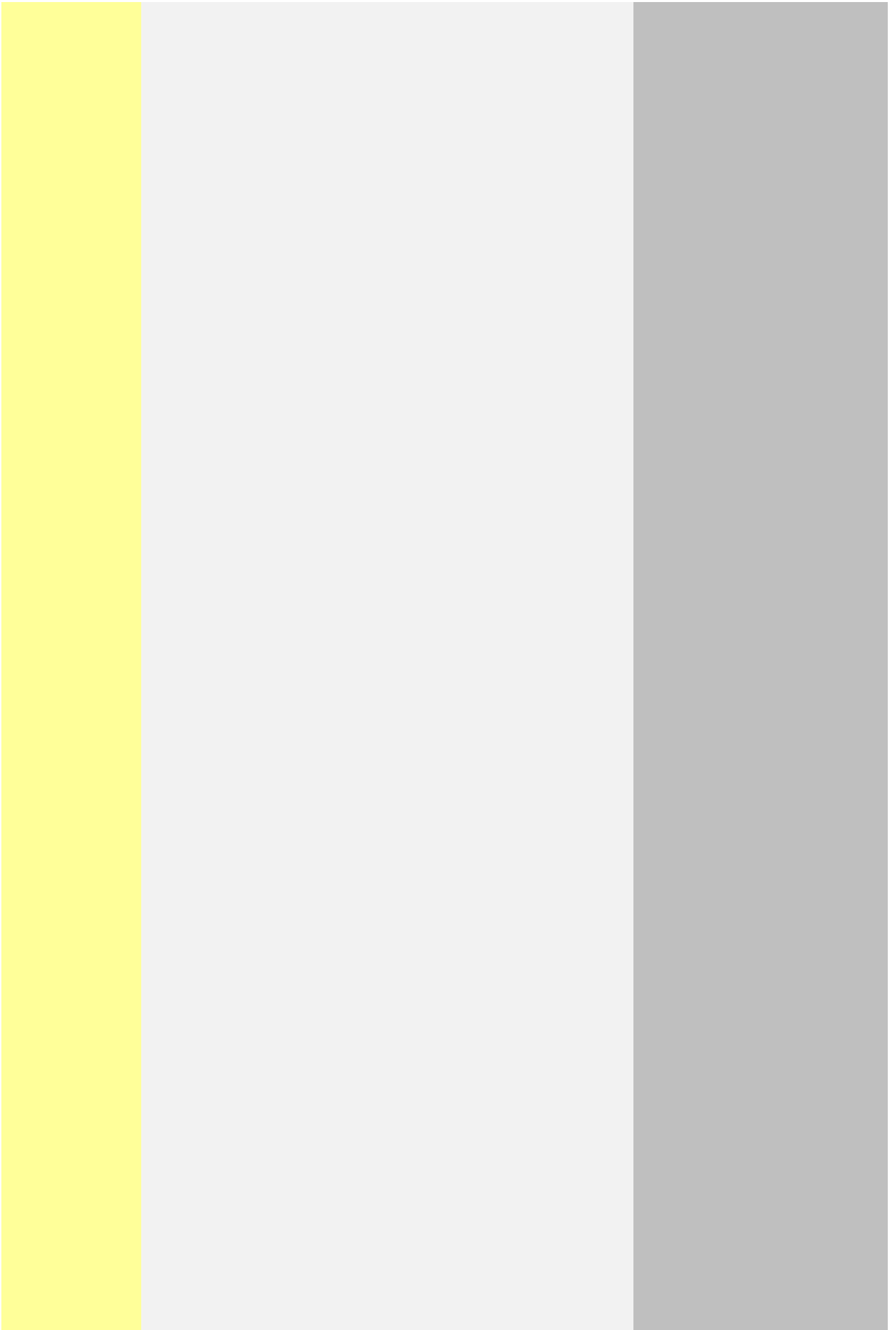


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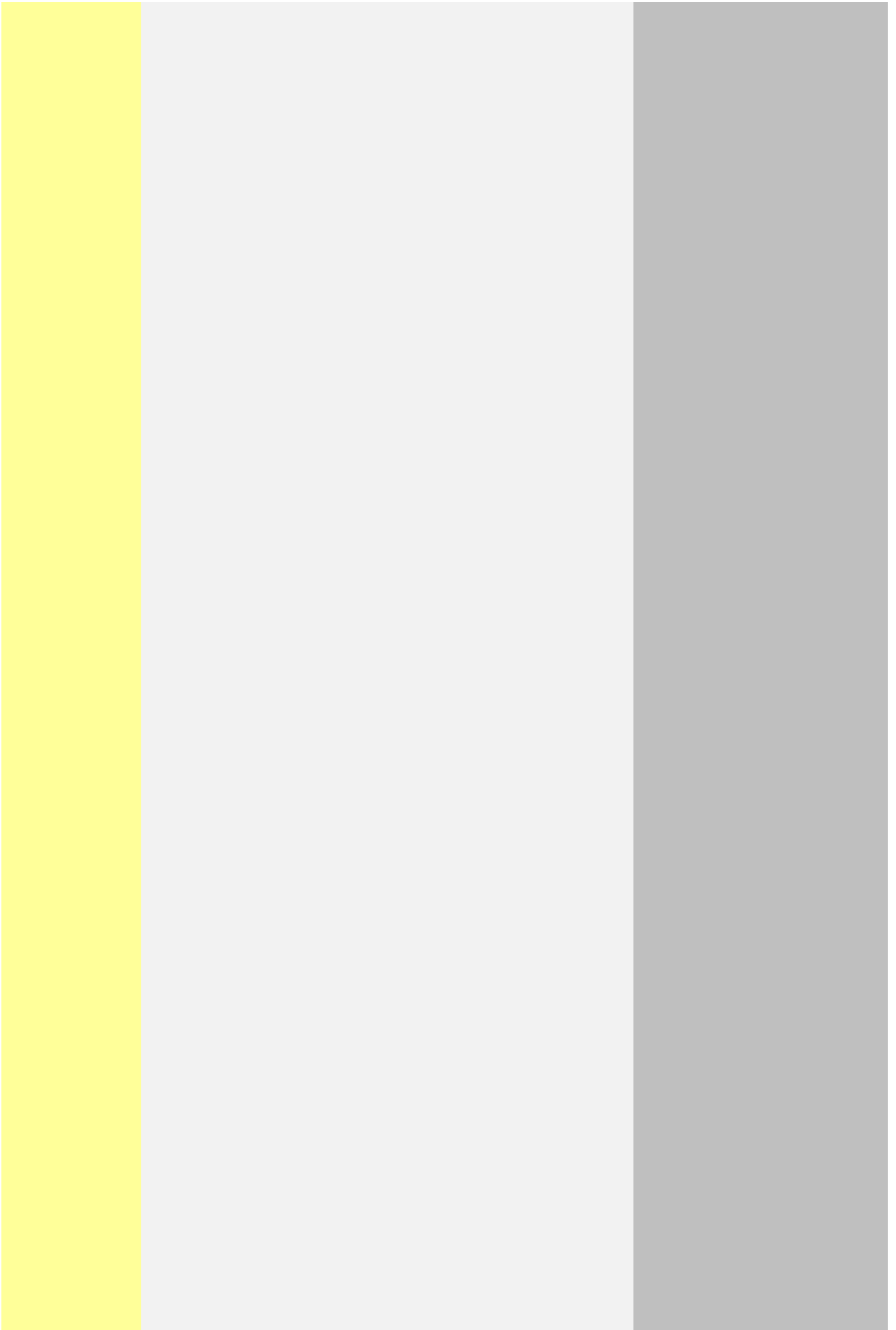
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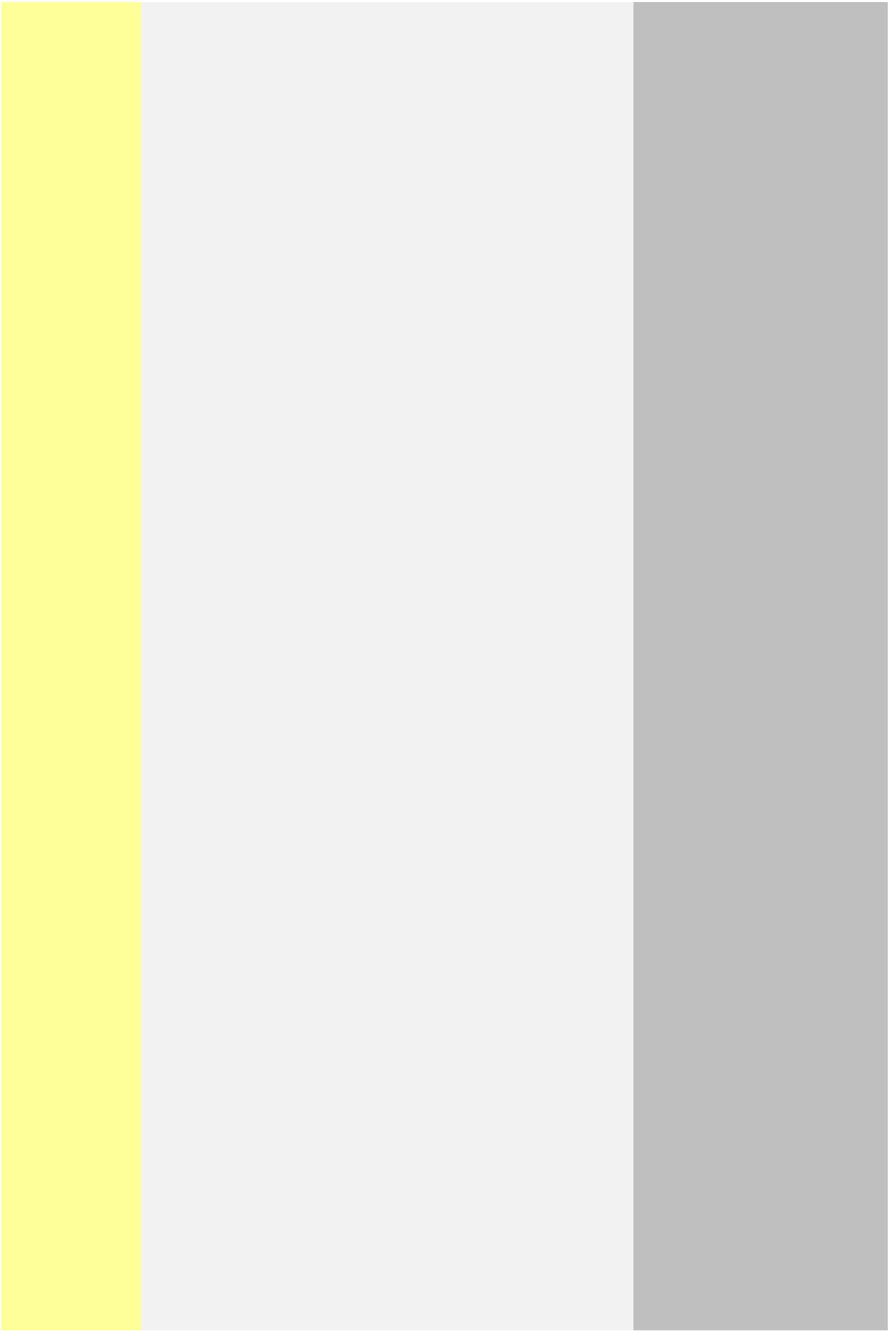


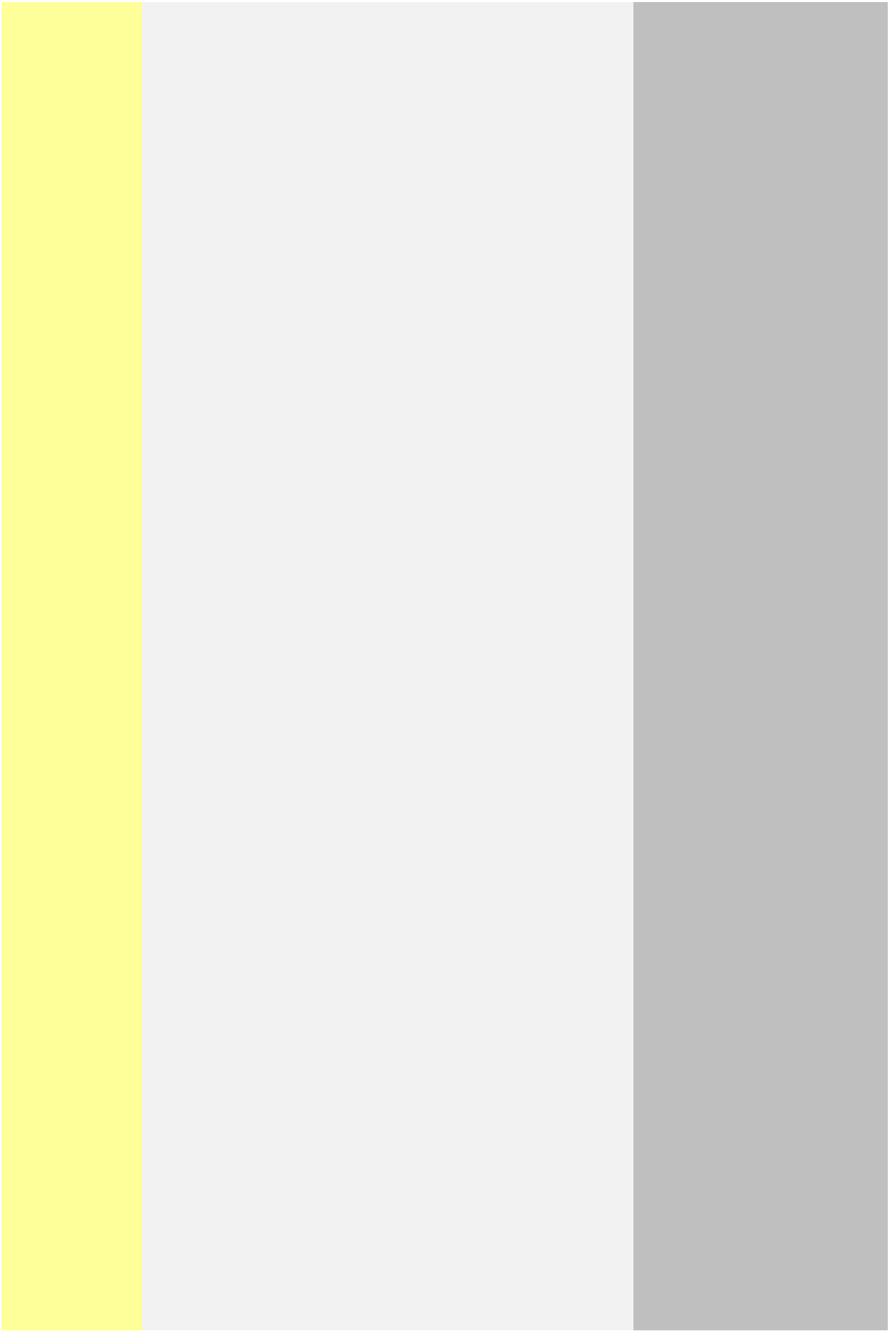


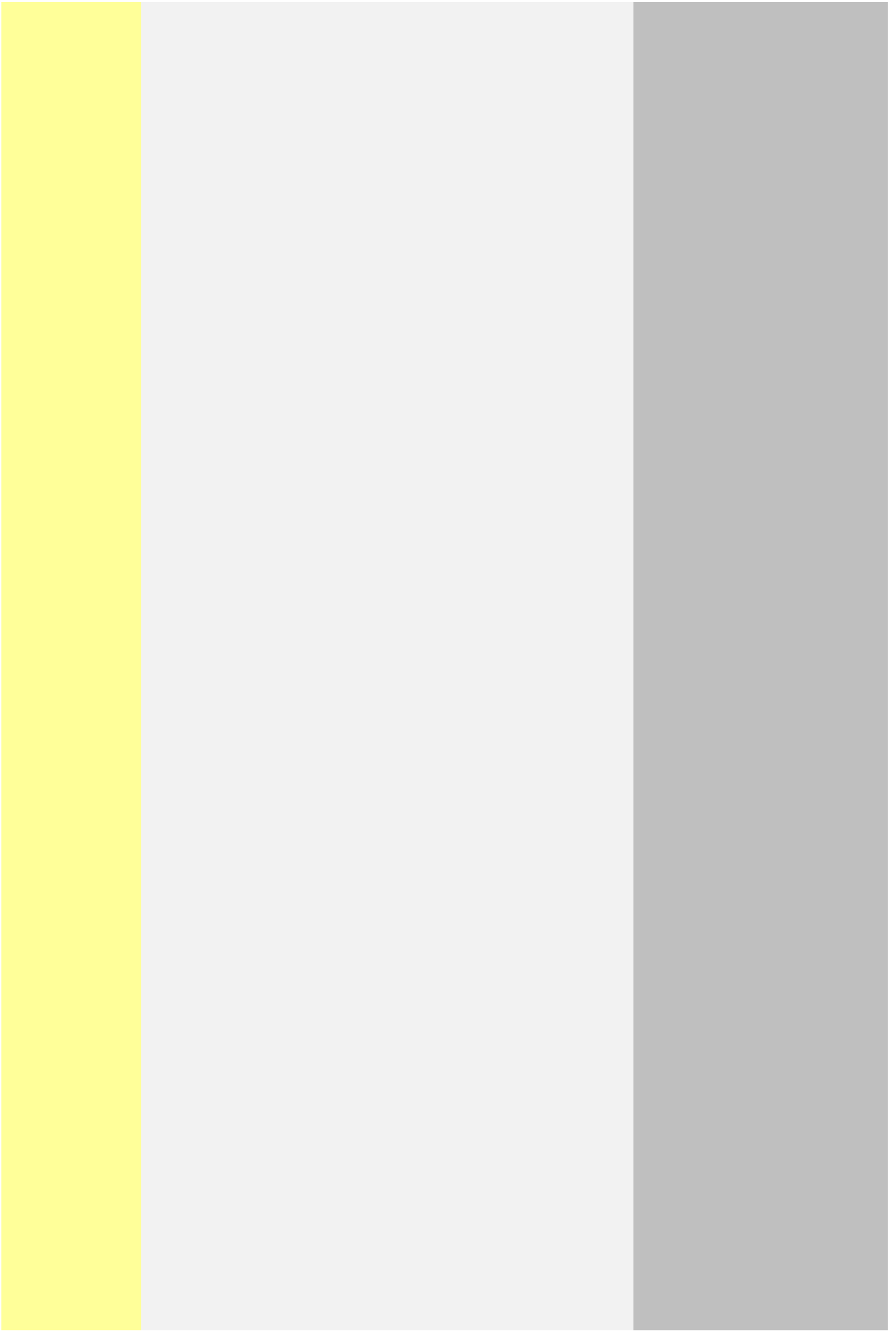


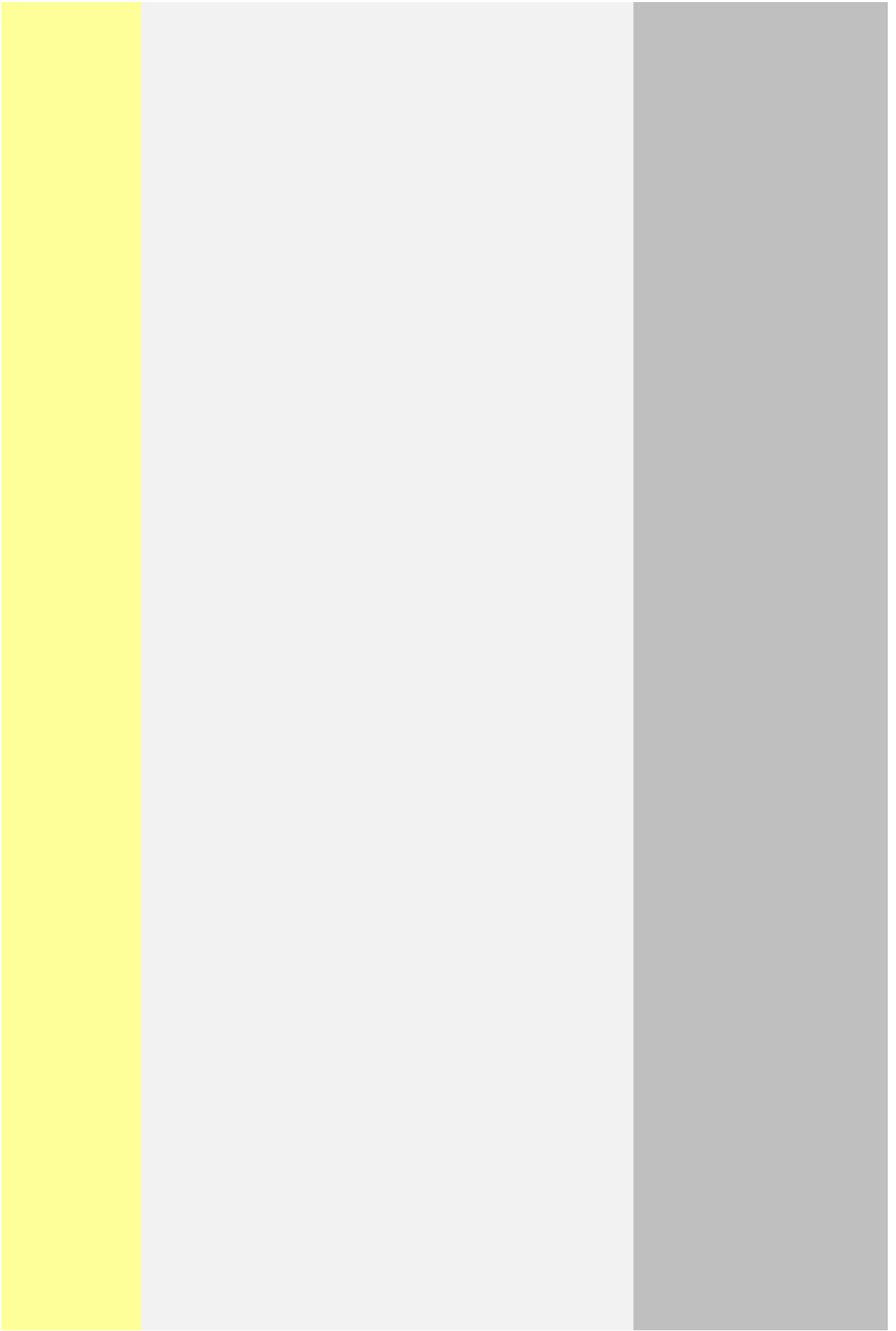


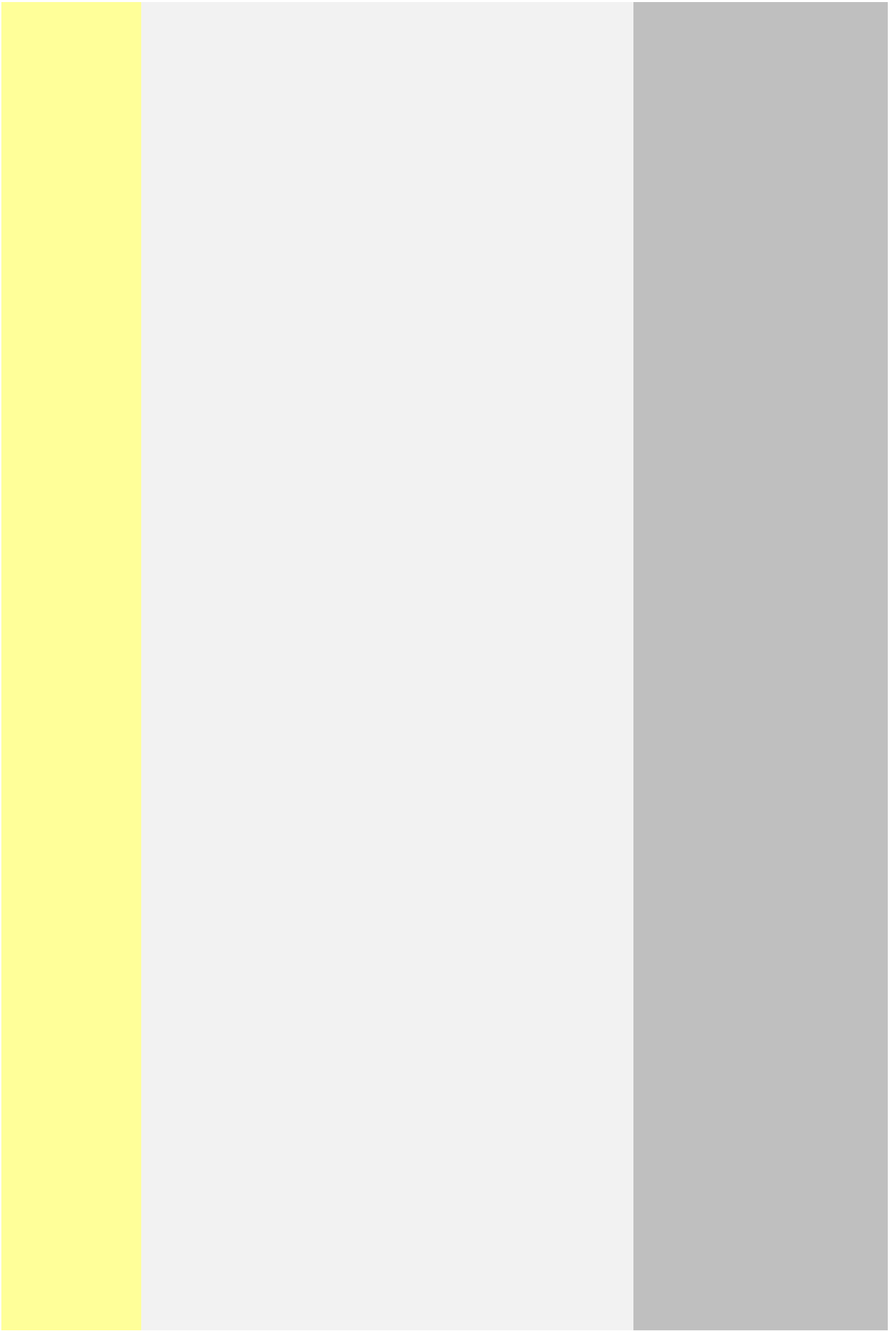


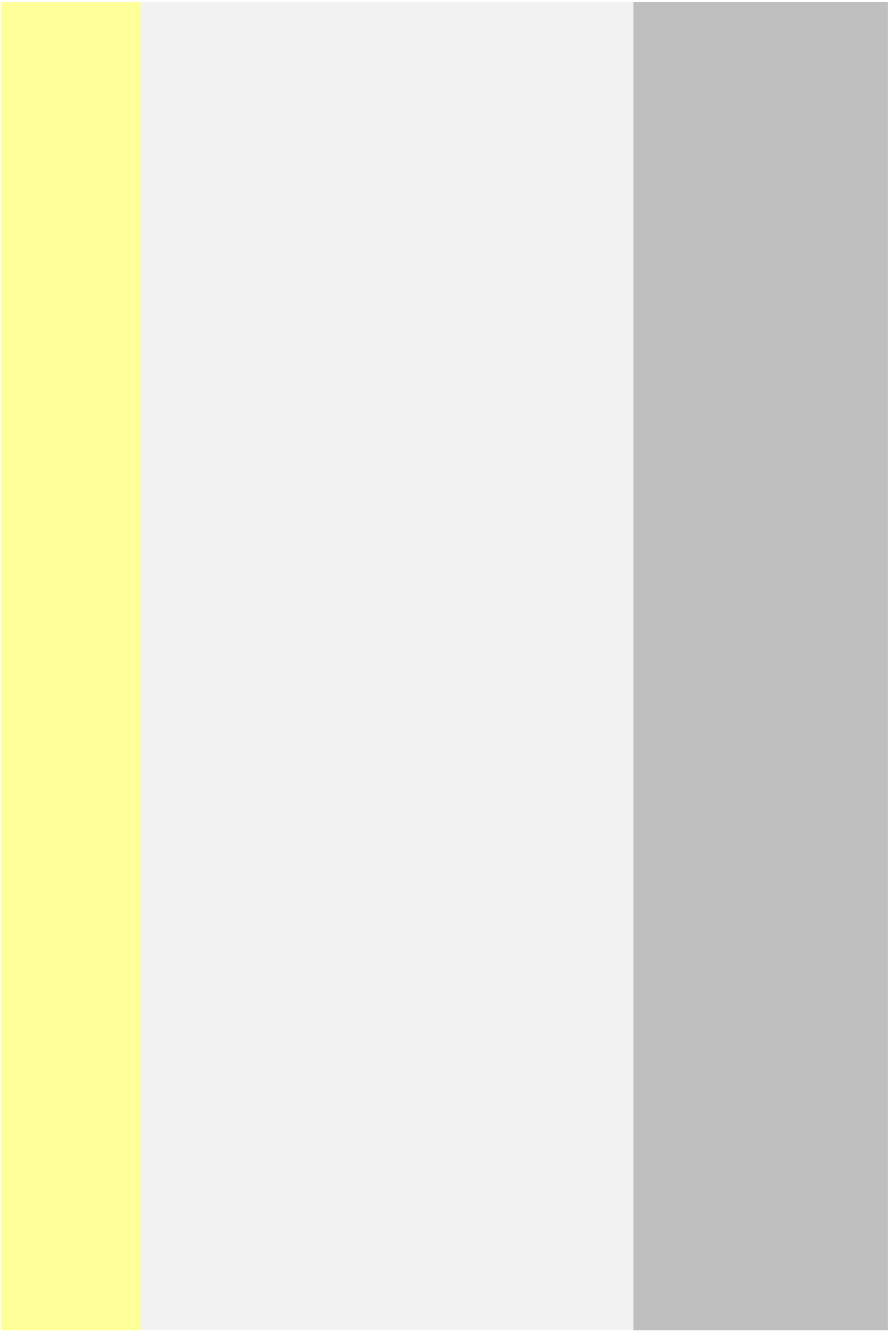


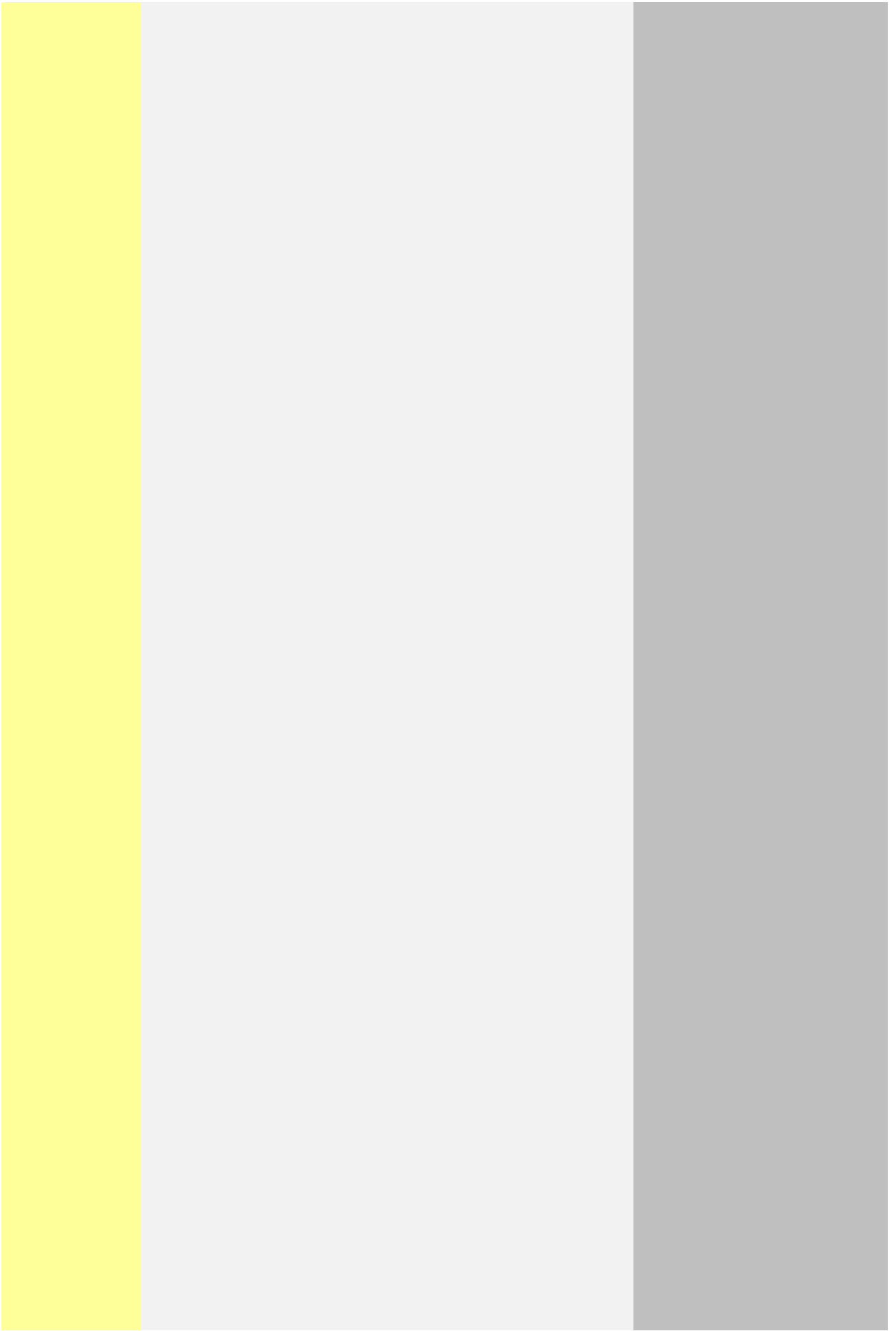


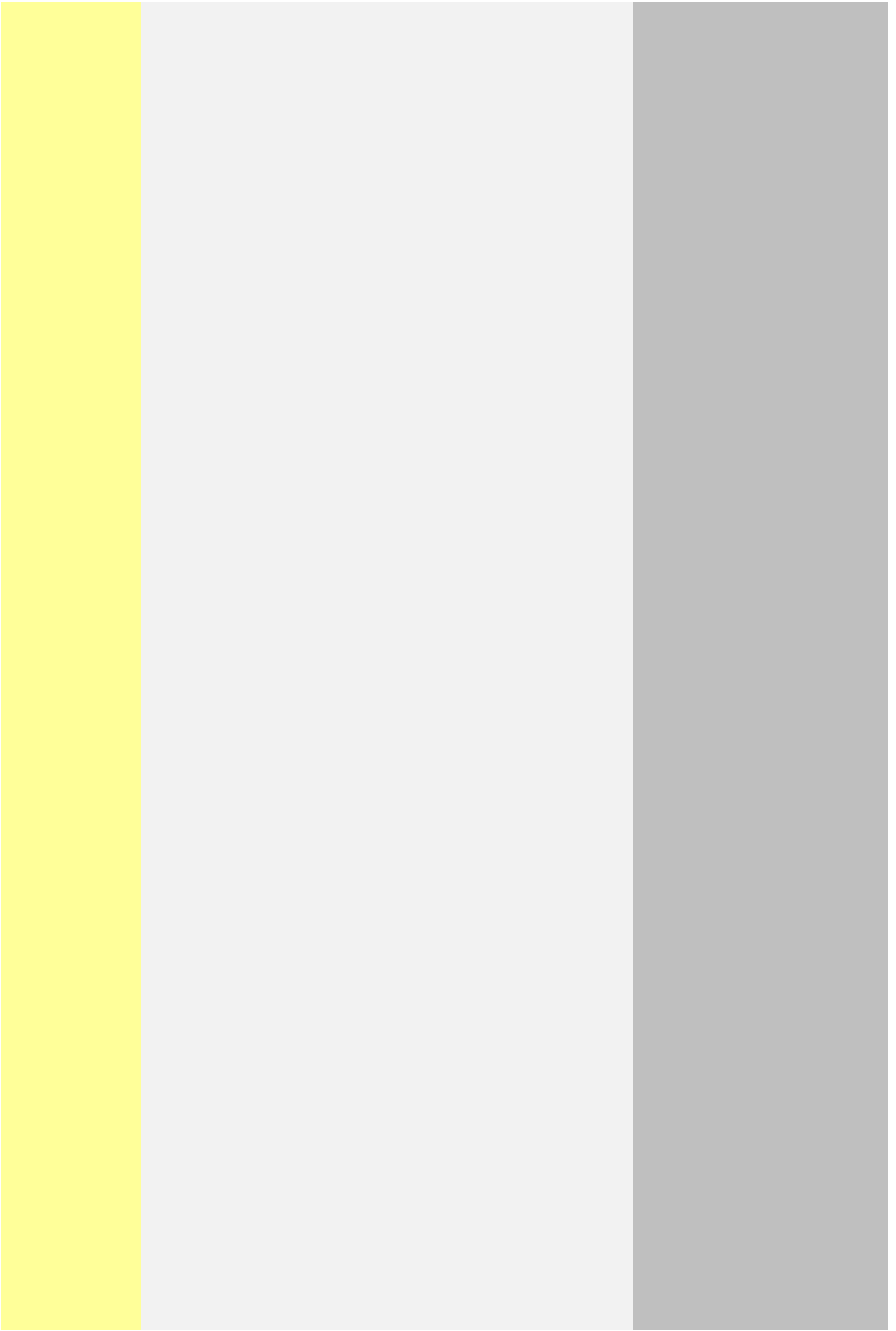




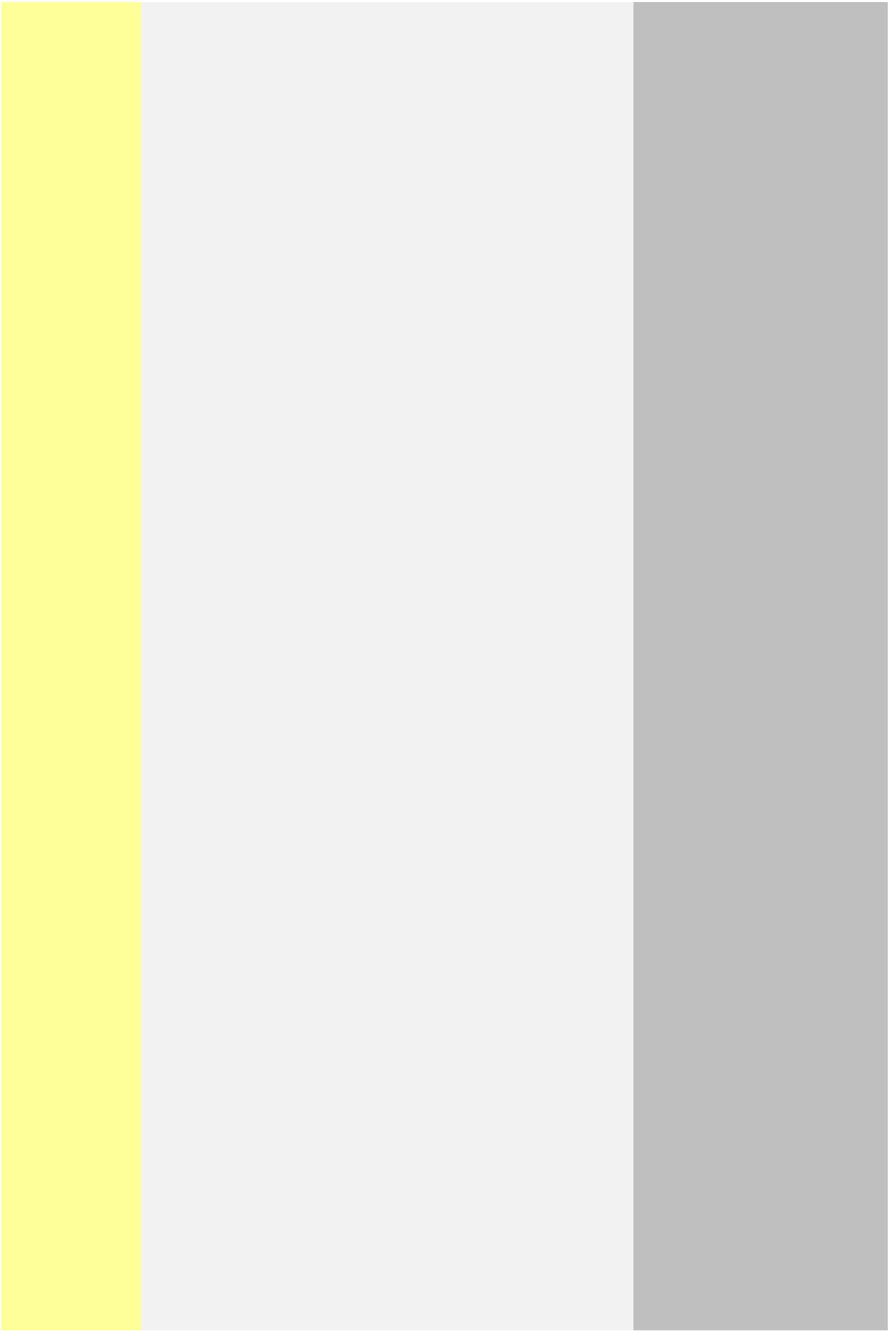


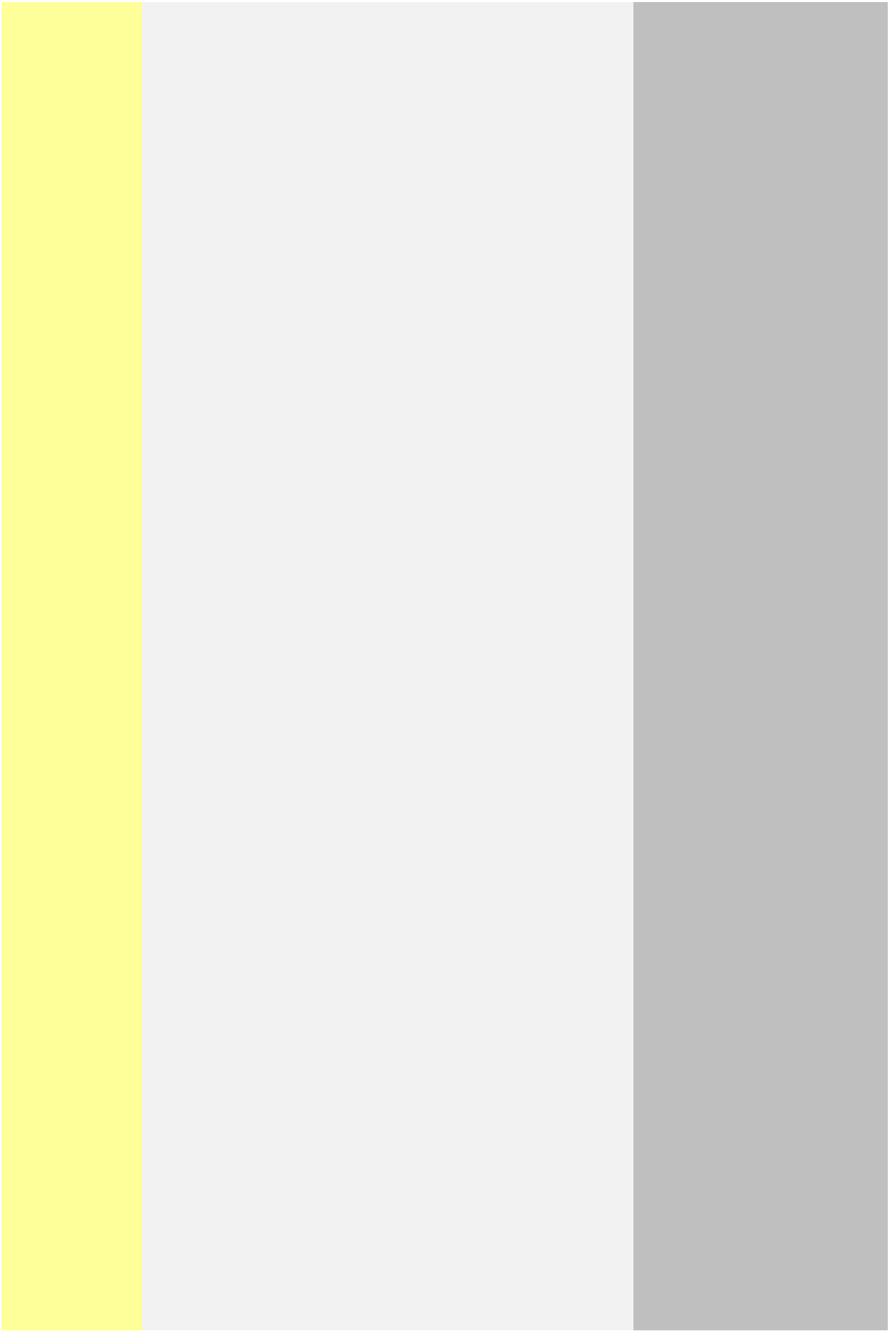


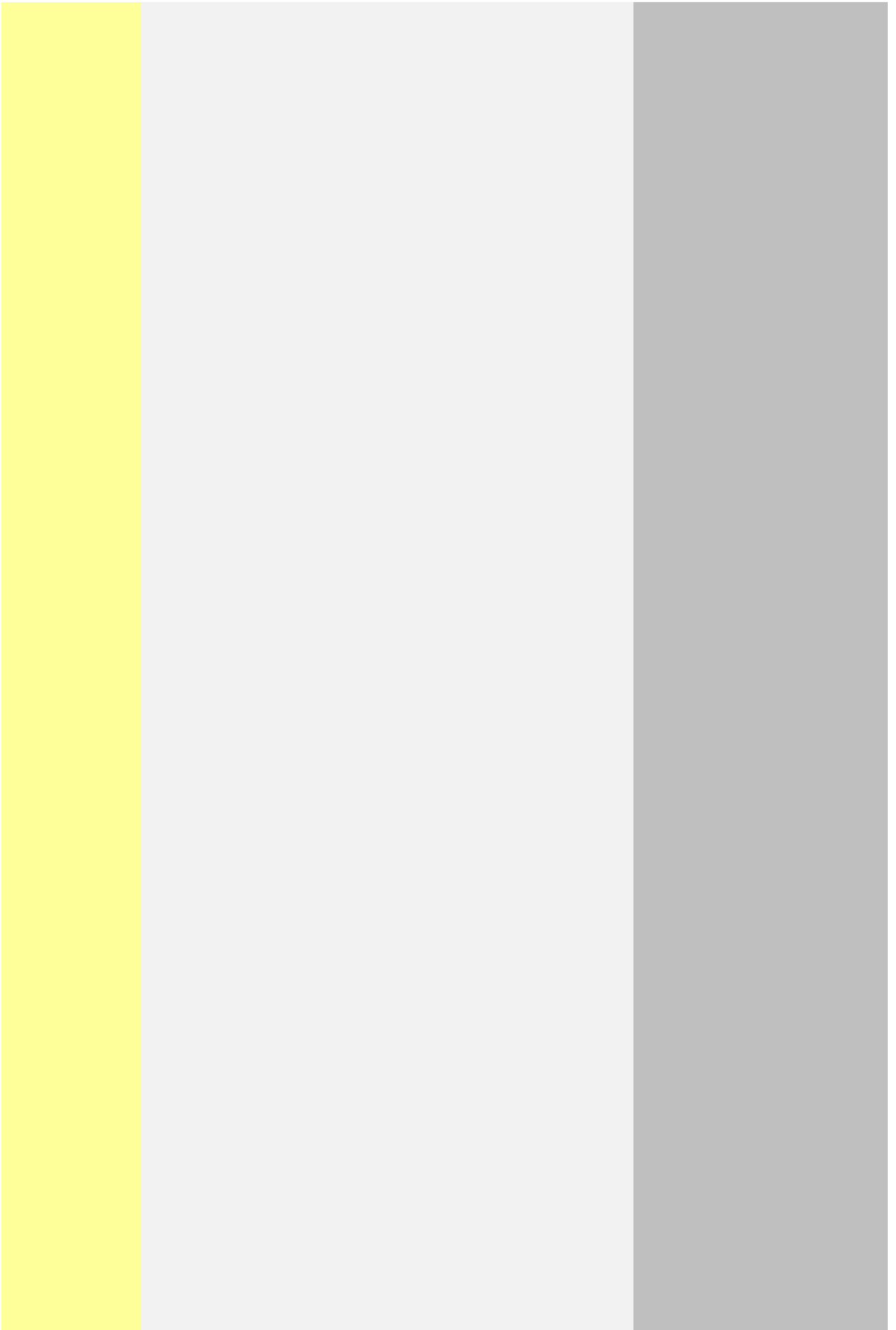














| skup1+2+3  | kategorizace | r1       | Leukocyty | Atropin | Tep1 | Tep2 | Tep1Tep2 | Parametr   |
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| 176.997678 | 1            | 0.485632 | 9.122783  | ano     | 170  | 160  | -10      | 91.933032  |
| 167.223168 | 1            | 0.275833 | 8.830292  | ano     | 180  | 170  | -10      | 80.436087  |
| 182.442573 | 1            | 0.724413 | 9.030533  | ne      | 140  | 135  | -5       | 82.488998  |
| 192.764735 | 1            | 0.81928  | 9.044314  | ano     | 150  | 140  | -10      | 105.2524   |
| 191.983502 | 1            | 1.986402 | 9.021018  | ano     | 160  | 140  | -20      | 86.944664  |
| 197.331331 | 1            | 1.170591 | 9.106211  | ano     | 180  | 140  | -40      | 80.205462  |
| 158.164124 | 1            | 1.049273 | 8.943594  | ne      | 105  | 105  | 0        | 102.901027 |
| 177.658188 | 1            | 1.24751  | 8.973105  | ano     | 145  | 135  | -10      | 96.208328  |
| 190.950225 | 1            | 2.370011 | 9.048279  | ano     | 150  | 135  | -15      | 81.099108  |
| 169.132994 | 1            | 1.540617 | 8.836115  | ne      | 140  | 135  | -5       | 134.538789 |
| 173.097958 | 1            | 1.569732 | 9.03851   | ano     | 170  | 160  | -10      | 91.559213  |
| 163.095677 | 1            | 5.834733 | 9.060292  | ano     | 180  | 160  | -20      | 87.571806  |
| 161.530891 | 1            | 0.856919 | 8.951987  | ano     |      |      | 0        | 100.405691 |
| 170.223705 | 1            | 1.716479 | 8.885432  | ano     | 165  | 165  | 0        | 98.451023  |
| 172.264929 | 1            | 0.366457 | 9.050256  | ne      | 170  | 160  | -10      | 95.377539  |
| 158.820688 | 1            | 0.97354  | 9.167469  | ano     | 180  | 130  | -50      | 108.206564 |
| 174.320751 | 1            | 1.253394 | 8.788679  | ne      | 160  | 150  | -10      | 112.993451 |
| 175.959524 | 1            | 0.143113 | 8.91541   | ano     | 140  | 130  | -10      | 107.615745 |
| 181.348531 | 1            | 4.856862 | 8.903994  | ne      | 160  | 130  | -30      | 106.048265 |
| 176.34507  | 1            | 1.691241 | 9.047395  | ne      | 160  | 60   | -100     | 116.488161 |
| 176.730094 | 1            | 2.657169 | 8.876406  | ano     | 170  | 170  | 0        | 101.962599 |
| 176.297595 | 1            | 3.766172 | 8.959617  | ano     | 170  | 150  | -20      | 90.858862  |
| 193.426416 | 1            | 1.494523 | 9.077914  | ano     | 140  | 145  | 5        | 82.57266   |
| 179.147155 | 1            | 2.547443 | 8.93226   | ano     | 190  | 150  | -40      | 128.402565 |
| 178.138424 | 1            | 1.49378  | 9.066754  | ne      | 150  | 140  | -10      | 97.370935  |
| 174.867926 | 1            | 3.712921 | 8.866183  | ano     | 130  | 135  | 5        | 119.385334 |
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| 188.65673  | 1            | 0.362142 | 9.013879  | ne      | 145  | 120  | -25      | 107.499801 |
| 203.756547 | 1            | 7.613819 | 8.915161  | ano     | 140  | 140  | 0        | 92.941684  |
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| 196.614558 | 1            | 2.266988 | 8.804815  | ne      | 120  | 115  | -5       | 115.18016  |
| 163.876023 | 1            | 1.112031 | 9.186409  | ne      | 140  | 120  | -20      | 77.615721  |
| 185.389484 | 1            | 0.605593 | 8.776906  | ano     | 135  | 135  | 0        | 95.178598  |
| 189.021915 | 1            | 6.038758 | 9.024338  | ano     | 160  | 135  | -25      | 92.531389  |
| 199.189156 | 1            | 1.54204  | 8.90566   | ne      | 135  | 125  | -10      | 79.732479  |
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| 186.751384 | 1            | 2.667035 | 9.073123  | ne      | 140  | 140  | 0        | 98.904906  |
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| 165.558134 | 1            | 0.708882 | 8.859392  | ano     | 150  | 160  | 10       | 96.122961  |
| 171.527625 | 1            | 4.523428 | 8.907561  | ano     | 150  | 160  | 10       | 105.932679 |
| 164.78429  | 1            | 1.57854  | 8.991015  | ano     | 180  | 180  | 0        | 81.232872  |
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| 179.675208 | 1            | 0.457778 | 8.836446  | ano     | 140  | 150  | 10       | 109.055634 |
| 180.28117  | 1            | 2.187872 | 8.918547  | ne      | 180  | 120  | -60      | 86.597618  |
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| 167.202364 | 1 | 3.20926  | 9.012193 | ano | 165 | 150 | -15 | 93.646776  |
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| 185.957418 | 1 | 1.464944 | 8.867571 | ano | 140 | 115 | -25 | 118.63483  |
| 166.2815   | 1 | 0.833507 | 9.12041  | ne  | 160 | 140 | -20 | 84.141778  |
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| 180.417413 | 1 | 0.128468  |          | 73.688136  |
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| 196.30624  | 1 | 1.366617  |          | 111.731493 |
| 183.039145 | 1 | 1.250742  |          | 67.657095  |
| 185.889956 | 1 | 1.692282  |          | 68.57905   |
| 198.528362 | 1 | 0.583929  |          | 78.758342  |
| 176.644431 | 1 | 0.65642   |          | 107.244739 |
| 190.382746 | 1 | 0.734736  |          | 70.777253  |
| 181.435046 | 1 | 0.626793  |          | 97.954029  |
| 191.410407 | 1 | 0.26258   |          | 103.300784 |
| 178.517012 | 1 | 0.289763  |          | 91.544428  |
| 172.201833 | 1 | 0.491525  |          | 93.617905  |
| 190.759936 | 1 | 0.5846    |          | 107.728227 |
| 174.18178  | 1 | 0.56187   |          | 109.763949 |
| 185.33912  | 1 | 2.590061  |          | 110.273118 |
| 185.457719 | 1 | 0.483897  |          | 85.184911  |
| 176.835629 | 1 | 1.61354   |          | 98.525988  |
| 175.592339 | 1 | 0.852418  |          | 124.485416 |
| 166.340072 | 1 | 0.264052  |          | 125.223403 |
| 199.929576 | 1 | 0.471989  |          | 85.072361  |
| 174.335121 | 1 | 1.011347  |          | 99.947784  |
| 180.861291 | 1 | 0.394457  |          | 89.81375   |
| 177.657392 | 1 | 0.953332  |          | 91.490557  |
| 208.353679 | 1 | 1.272155  |          | 76.562322  |
| 192.519786 | 1 | 1.706195  |          | 94.411962  |
| 188.80907  | 1 | 3.976209  |          | 92.531389  |
| 193.321642 | 1 | 0.985231  |          | 93.923103  |
| 181.878709 | 1 | 0.313104  |          | 111.949294 |
| 185.419577 | 1 | 1.344676  |          | 104.268747 |
| 177.503801 | 1 | 0.272926  |          | 111.859663 |
| 167.789124 | 1 | 6.311035  |          | 98.257078  |
| 192.666851 | 1 | 0.644249  |          | 133.033211 |
| 177.111127 | 1 | 0.265423  |          | 127.6847   |
| 166.941248 | 1 | 0.860641  |          | 88.162267  |
| 187.642541 | 1 | 0.840469  |          | 104.42671  |
| 187.842823 | 1 | 0.16983   |          | 93.307489  |

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| 184.281549 | 1 | 4.373184  | 120.35074  |
| 184.038816 | 1 | 0.530562  | 81.212784  |
| 173.519032 | 1 | 0.581969  | 116.566094 |
| 187.230983 | 1 | 0.86204   | 101.255086 |
| 185.252878 | 1 | 2.208047  | 92.008509  |
| 190.750387 | 1 | 0.73503   | 94.762231  |
| 152.305523 | 1 | 0.5324    | 104.054101 |
| 184.63815  | 1 | 0.925113  | 100.205966 |
| 194.671377 | 1 | 0.44541   | 102.285992 |
| 162.77417  | 1 | 1.35548   | 109.23111  |
| 180.454941 | 1 | 3.842909  | 123.256575 |
| 193.54033  | 1 | 1.814876  | 99.131455  |
| 196.882041 | 1 | 5.782486  | 120.06077  |
| 182.386651 | 1 | 1.00957   | 95.154417  |
| 181.450508 | 1 | 2.146731  | 100.341402 |
| 198.545416 | 1 | 2.099301  | 103.161017 |
| 179.574152 | 1 | 0.536729  | 88.609807  |
| 173.431015 | 1 | 0.265815  | 91.606228  |
| 189.073756 | 1 | 5.108547  | 120.394054 |
| 179.900933 | 1 | 0.2054    | 110.933104 |
| 190.391932 | 1 | 0.397668  | 129.041166 |
| 184.347044 | 1 | 1.142868  | 106.964882 |
| 194.533634 | 1 | 0.945189  | 87.205797  |
| 178.787985 | 1 | 0.518851  | 96.766201  |
| 170.382821 | 1 | 1.552456  | 121.62385  |
| 164.614124 | 1 | 0.924758  | 126.528369 |
| 154.349339 | 1 | 1.23391   | 98.813996  |
| 181.031879 | 1 | 0.599043  | 105.413756 |
| 182.991919 | 1 | 1.499492  | 121.266692 |
| 179.822126 | 1 | 0.826788  | 101.851549 |
| 182.004992 | 1 | 0.126515  | 85.257625  |
| 182.582328 | 1 | 3.961292  | 104.502272 |
| 194.761736 | 1 | 1.201617  | 100.58364  |
| 180.852845 | 1 | 3.569186  | 78.789583  |
| 168.832633 | 1 | 1.063029  | 134.023105 |
| 166.100875 | 1 | 2.918968  | 116.319166 |
| 181.914532 | 1 | 1.532111  | 109.430221 |
| 189.510813 | 1 | 10.596275 | 89.072865  |
| 164.912074 | 1 | 2.010887  | 79.52757   |
| 173.900383 | 1 | 2.084591  | 117.52461  |
| 185.235324 | 1 | 1.569996  | 111.113491 |
| 177.83239  | 1 | 0.139001  | 113.457225 |
| 176.564202 | 1 | 1.386229  | 97.495524  |
| 178.36524  | 1 | 2.27526   | 79.01175   |
| 175.603298 | 1 | 0.17176   | 115.742296 |
| 171.973777 | 1 | 1.109382  | 88.868382  |
| 186.447965 | 1 | 0.820944  | 70.188856  |
| 180.588227 | 1 | 2.628637  | 95.194287  |
| 192.634518 | 1 | 0.588429  | 81.972906  |
| 182.621891 | 1 | 1.881096  | 71.187208  |



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|------------|---|----------|------------|
| 180.571367 | 1 | 1.412277 | 115.442913 |
| 182.269542 | 1 | 1.512774 | 93.292278  |
| 182.144907 | 1 | 2.597563 | 108.237225 |
| 179.92541  | 1 | 2.79938  | 106.946993 |
| 167.761657 | 1 | 4.010466 | 88.686204  |
| 182.353613 | 1 | 1.814046 | 93.226265  |
| 181.482215 | 1 | 1.296075 | 127.735314 |
| 187.524238 | 1 | 1.133124 | 87.887679  |
| 172.638232 | 1 | 0.162446 | 99.536925  |
| 186.164248 | 1 | 3.29399  | 104.591186 |
| 182.191109 | 1 | 0.233473 | 118.313926 |
| 181.143462 | 1 | 2.928907 | 118.093465 |
| 188.681241 | 1 | 0.512759 | 102.94898  |
| 198.028368 | 1 | 3.200079 | 106.705181 |
| 166.9161   | 1 | 3.819797 | 108.64863  |
| 167.657475 | 1 | 1.320667 | 102.884656 |
| 185.600327 | 1 | 0.197106 | 102.739841 |
| 191.906991 | 1 | 2.370011 | 108.17858  |
| 171.217965 | 1 | 1.597195 | 121.120377 |
| 158.546202 | 1 | 0.098022 | 127.171814 |
| 171.018217 | 1 | 1.239715 | 106.555882 |
| 182.019829 | 1 | 0.768269 | 117.177376 |
| 184.290769 | 1 | 0.378522 | 92.959624  |
| 170.15065  | 1 | 0.624656 | 90.718925  |
| 171.40764  | 1 | 2.047171 | 106.51047  |
| 184.616857 | 1 | 0.674282 | 121.919959 |
| 181.215869 | 1 | 0.909617 | 106.955929 |
| 174.599011 | 1 | 0.388832 | 103.987492 |
| 181.024955 | 1 | 0.78514  | 99.22569   |
| 170.584956 | 1 | 1.058963 | 114.585078 |
| 171.04682  | 1 | 1.04847  | 100.57675  |
| 190.465715 | 1 | 1.267358 | 107.230551 |
| 196.265903 | 1 | 0.645335 | 107.322194 |
| 173.279334 | 1 | 0.567719 | 87.508625  |
| 178.28068  | 1 | 0.544323 | 97.094301  |
| 181.127296 | 1 | 0.453031 | 127.65953  |
| 198.4481   | 1 | 2.567511 | 107.862195 |
| 185.950119 | 1 | 1.897909 | 125.48677  |
| 196.548029 | 1 | 0.1524   | 107.22668  |
| 181.770582 | 1 | 1.905419 | 123.745997 |
| 195.601836 | 1 | 0.716562 | 100.803044 |
| 173.562392 | 1 | 0.390319 | 84.065346  |
| 170.339006 | 1 | 0.545175 | 98.447561  |
| 191.93971  | 1 | 0.422079 | 108.116081 |
| 189.187511 | 1 | 0.140777 | 106.683626 |
| 162.706322 | 1 | 0.96708  | 92.527501  |
| 192.719943 | 1 | 1.006948 | 92.847961  |
| 178.002033 | 1 | 5.851686 | 98.359857  |
| 168.650984 | 1 | 0.845966 | 91.77345   |
| 161.20993  | 1 | 3.041845 | 92.037584  |

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| 171.751133 | 1 | 0.651273  | 96.951533  |
| 184.733761 | 1 | 0.396318  | 81.510769  |
| 189.177006 | 1 | 2.130572  | 125.399731 |
| 179.305214 | 1 | 1.039199  | 123.547227 |
| 179.461579 | 1 | 0.862707  | 81.245423  |
| 182.146476 | 1 | 0.956844  | 105.517984 |
| 176.479687 | 1 | 1.393863  | 88.919694  |
| 189.281234 | 1 | 1.642147  | 100.144013 |
| 175.05726  | 1 | 1.143751  | 86.229238  |
| 203.434768 | 1 | 1.581763  | 95.063661  |
| 187.440235 | 1 | 0.334578  | 100.598561 |
| 186.106075 | 1 | 2.893435  | 92.016438  |
| 170.189099 | 1 | 0.327253  | 106.842424 |
| 188.716961 | 1 | 0.60491   | 110.61087  |
| 194.472334 | 1 | 0.693288  | 86.378964  |
| 172.686298 | 1 | 0.458063  | 95.643941  |
| 176.988879 | 1 | 3.529818  | 95.704957  |
| 166.603643 | 1 | 1.788486  | 133.190645 |
| 193.53078  | 1 | 0.510114  | 101.829585 |
| 190.451186 | 1 | 0.812907  | 111.051691 |
| 181.843682 | 1 | 2.827308  | 122.010477 |
| 158.088817 | 1 | 1.28111   | 115.997341 |
| 185.055426 | 1 | 0.380843  | 109.452611 |
| 185.262541 | 1 | 1.624529  | 126.915404 |
| 192.161058 | 1 | 6.452419  | 104.889137 |
| 170.417996 | 1 | 1.101986  | 90.763331  |
| 192.055966 | 1 | 0.533643  | 120.322022 |
| 174.380869 | 1 | 0.449288  | 95.287209  |
| 172.663288 | 1 | 0.422595  | 67.657095  |
| 162.753889 | 1 | 1.572926  | 116.156309 |
| 193.746012 | 1 | 1.99858   | 129.769944 |
| 170.346328 | 1 | 0.152331  | 95.903045  |
| 195.458727 | 1 | 3.84875   | 87.650881  |
| 168.327522 | 1 | 3.3969    | 140.14255  |
| 175.909673 | 1 | 0.752388  | 87.360297  |
| 166.921489 | 1 | 0.426486  | 102.410275 |
| 195.897967 | 1 | 1.103597  | 122.610402 |
| 180.28806  | 1 | 1.468204  | 111.417751 |
| 183.304626 | 1 | 0.234861  | 116.528134 |
| 189.763971 | 1 | 1.104106  | 114.033446 |
| 199.492018 | 1 | 0.811384  | 102.062188 |
| 179.391082 | 1 | 10.201741 | 86.234491  |
| 169.703429 | 1 | 0.213933  | 97.283487  |
| 174.306359 | 1 | 1.991413  | 82.895372  |
| 188.475661 | 1 | 1.360706  | 110.251358 |
| 188.723691 | 1 | 1.583915  | 72.526757  |
| 185.107654 | 1 | 1.183641  | 89.445064  |
| 165.139721 | 1 | 0.351186  | 96.268713  |
| 166.038301 | 1 | 3.232203  | 91.119978  |
| 178.561862 | 1 | 0.259825  | 125.879331 |

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| 173.710389 | 1 | 0.530215 | 94.439008  |
| 173.724362 | 1 | 2.196775 | 90.590737  |
| 188.789902 | 1 | 0.498702 | 98.393332  |
| 171.617096 | 1 | 2.649326 | 121.734695 |
| 178.851149 | 1 | 1.101055 | 98.239753  |
| 177.678628 | 1 | 0.662085 | 94.677989  |
| 195.18415  | 1 | 1.505109 | 112.541784 |
| 166.825514 | 1 | 1.494399 | 104.510679 |
| 170.645551 | 1 | 4.389163 | 97.040499  |
| 178.326462 | 1 | 0.834936 | 110.366159 |
| 169.388994 | 1 | 0.292387 | 97.118857  |
| 165.659406 | 1 | 1.381988 | 87.68468   |
| 158.367123 | 1 | 1.419064 | 104.311789 |
| 185.808261 | 1 | 1.639024 | 91.316122  |
| 176.611234 | 1 | 0.944248 | 106.054472 |
| 184.126116 | 1 | 0.429301 | 109.632436 |
| 159.51054  | 1 | 1.036656 | 92.823541  |
| 191.677002 | 1 | 0.813225 | 90.028039  |
| 160.513076 | 1 | 2.15822  | 100.608895 |
| 174.826874 | 1 | 0.29586  | 111.792338 |
| 170.236029 | 1 | 0.928313 | 98.963585  |
| 178.995031 | 1 | 0.117914 | 97.746511  |
| 181.347769 | 1 | 4.723148 | 96.601571  |
| 197.355433 | 1 | 1.70921  | 98.595155  |
| 174.934137 | 1 | 1.480243 | 85.535931  |
| 172.053756 | 1 | 0.187251 | 108.730058 |
| 172.532503 | 1 | 1.967326 | 113.109036 |
| 185.867219 | 1 | 1.501237 | 102.512627 |
| 192.839382 | 1 | 0.669832 | 121.98019  |
| 165.646537 | 1 | 0.391388 | 92.412955  |
| 189.692758 | 1 | 0.396737 | 85.938075  |
| 195.876321 | 1 | 1.706798 | 117.944694 |
| 173.331016 | 1 | 6.679561 | 94.665779  |
| 180.831346 | 1 | 2.081879 | 128.541581 |
| 171.716686 | 1 | 1.544506 | 122.692939 |
| 186.95552  | 1 | 0.628987 | 96.533256  |
| 182.392164 | 1 | 0.316156 | 84.638737  |
| 180.466423 | 1 | 0.902859 | 84.520014  |
| 169.702133 | 1 | 1.350604 | 111.568585 |
| 177.004079 | 1 | 6.248666 | 102.89985  |
| 187.245899 | 1 | 0.100324 | 130.904721 |
| 179.90323  | 1 | 0.812653 | 94.46851   |
| 190.022291 | 1 | 1.482078 | 76.35789   |
| 169.860726 | 1 | 2.833628 | 87.293074  |
| 187.586323 | 1 | 0.472515 | 94.003986  |
| 192.416604 | 1 | 1.455823 | 111.895781 |
| 168.304808 | 1 | 3.221909 | 102.247691 |
| 183.965056 | 1 | 2.455127 | 89.051923  |
| 162.188774 | 1 | 0.552664 | 117.089246 |
| 180.792966 | 1 | 0.213825 | 102.027434 |

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| 190.062831 | 1 | 2.037892 | 98.840462  |
| 190.353938 | 1 | 0.619915 | 77.099424  |
| 181.051103 | 1 | 1.83124  | 81.61336   |
| 172.38305  | 1 | 1.462897 | 97.290479  |
| 185.784727 | 1 | 2.225041 | 110.51967  |
| 184.643255 | 1 | 0.224176 | 97.546701  |
| 187.287736 | 1 | 0.806574 | 93.875747  |
| 170.509605 | 1 | 0.922419 | 100.07974  |
| 185.966558 | 1 | 1.184744 | 113.346039 |
| 196.107151 | 1 | 0.700228 | 107.963729 |
| 182.342608 | 1 | 1.303484 | 98.72764   |
| 176.147244 | 1 | 2.328346 | 107.314435 |
| 182.487525 | 1 | 1.072442 | 102.567333 |
| 198.182072 | 1 | 1.291061 | 101.896655 |
| 155.991705 | 1 | 1.033883 | 98.57672   |
| 180.167915 | 1 | 0.440123 | 98.035082  |
| 178.769476 | 1 | 3.034951 | 122.338986 |
| 189.895439 | 1 | 0.249748 | 115.052433 |
| 192.360579 | 1 | 0.276993 | 98.850831  |
| 196.35558  | 1 | 2.126888 | 106.916349 |
| 161.80997  | 1 | 3.709571 | 111.920952 |
| 188.039956 | 1 | 1.123907 | 110.080998 |
| 183.668833 | 1 | 1.069404 | 70.197041  |
| 187.422091 | 1 | 0.713552 | 82.53204   |
| 184.839285 | 1 | 1.030564 | 93.759565  |
| 178.646058 | 1 | 1.098519 | 113.783006 |
| 196.593322 | 1 | 0.440736 | 98.877297  |
| 184.54379  | 1 | 0.29048  | 90.328052  |
| 179.688225 | 1 | 1.931733 | 81.215274  |
| 179.793818 | 1 | 0.284452 | 84.500437  |
| 179.475358 | 1 | 2.579512 | 80.265591  |
| 163.171801 | 1 | 3.983321 | 73.946115  |
| 184.432115 | 1 | 0.715982 | 92.850553  |
| 181.927788 | 1 | 3.043146 | 91.857351  |
| 186.507412 | 1 | 0.564257 | 135.463745 |
| 178.310955 | 1 | 0.715577 | 96.200023  |
| 188.256393 | 1 | 0.79821  | 68.198426  |
| 193.214662 | 1 | 8.672201 | 80.05369   |
| 199.023082 | 1 | 3.32194  | 88.127786  |
| 166.894454 | 1 | 1.502483 | 122.433323 |
| 186.200366 | 1 | 0.772538 | 105.4113   |
| 177.842565 | 1 | 0.200806 | 77.296216  |
| 172.579933 | 1 | 2.271606 | 88.960349  |
| 187.392896 | 1 | 4.6826   | 106.265469 |
| 203.317261 | 1 | 0.880205 | 94.327004  |
| 193.494582 | 1 | 0.937541 | 100.817982 |
| 181.797014 | 1 | 0.208302 | 87.995488  |
| 175.267092 | 1 | 2.700456 | 91.504046  |
| 177.618852 | 1 | 2.96284  | 121.601136 |
| 169.019079 | 1 | 0.592997 | 74.809543  |

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| 180.748469 | 1 | 0.380797 | 87.068247  |
| 177.413727 | 1 | 0.824215 | 113.577755 |
| 186.394384 | 1 | 0.69607  | 97.753469  |
| 167.259412 | 1 | 0.322062 | 100.821427 |
| 185.191498 | 1 | 1.079209 | 105.5143   |
| 189.765199 | 1 | 0.722371 | 71.092257  |
| 171.361051 | 1 | 1.487973 | 103.6355   |
| 183.714695 | 1 | 0.155856 | 93.730779  |
| 185.309153 | 1 | 2.222463 | 97.920435  |
| 189.755354 | 1 | 1.634501 | 103.246726 |
| 177.732812 | 1 | 0.961102 | 118.538412 |
| 182.330808 | 1 | 0.257406 | 124.652195 |
| 175.808821 | 1 | 0.688251 | 116.319166 |
| 185.101549 | 1 | 1.590669 | 93.075994  |
| 195.769365 | 1 | 2.057741 | 99.586294  |
| 178.410192 | 1 | 1.062621 | 97.540885  |
| 169.764319 | 1 | 0.291577 | 99.406026  |
| 170.786796 | 1 | 1.047908 | 99.890417  |
| 187.297717 | 1 | 0.169014 | 65.428469  |
| 195.963269 | 1 | 0.118268 | 87.882904  |
| 173.681456 | 1 | 1.395443 | 108.125392 |
| 171.675656 | 1 | 0.377037 | 100.023533 |
| 190.227927 | 1 | 2.843736 | 78.239043  |
| 182.229524 | 1 | 0.373046 | 102.282513 |
| 184.491267 | 1 | 3.4218   | 110.404085 |
| 205.994086 | 1 | 3.682334 | 117.67304  |
| 174.207133 | 1 | 0.496177 | 114.280647 |
| 172.154062 | 1 | 1.569332 | 84.155829  |
| 192.124292 | 1 | 2.378194 | 113.676595 |
| 176.954443 | 1 | 0.623535 | 81.342796  |
| 165.836803 | 1 | 5.526624 | 92.034941  |
| 191.194516 | 1 | 0.615033 | 82.565907  |
| 167.116894 | 1 | 1.172042 | 91.030961  |
| 176.015913 | 1 | 5.09822  | 130.097772 |
| 165.61434  | 1 | 1.285262 | 111.030613 |
| 169.016283 | 1 | 0.280465 | 76.898675  |
| 186.062805 | 1 | 0.285364 | 103.351346 |
| 181.217416 | 1 | 0.842624 | 78.498727  |
| 162.508416 | 1 | 0.643435 | 77.081006  |
| 200.372318 | 1 | 2.65651  | 91.955559  |
| 182.403181 | 1 | 1.761591 | 117.654691 |
| 194.272496 | 1 | 0.789727 | 86.255466  |
| 179.730312 | 1 | 0.571037 | 121.402366 |
| 177.614134 | 1 | 0.86538  | 116.731781 |
| 180.290356 | 1 | 0.229808 | 108.415259 |
| 161.480141 | 1 | 5.179259 | 72.738897  |
| 173.10088  | 1 | 0.762263 | 93.065779  |
| 193.827139 | 1 | 0.43692  | 109.13285  |
| 181.686726 | 1 | 1.71193  | 82.04122   |
| 175.603298 | 1 | 2.744823 | 95.916141  |

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| 173.950064 | 1 | 1.595015  | 128.191789 |
| 168.539571 | 1 | 0.736387  | 94.069793  |
| 192.488022 | 1 | 0.509771  | 95.92448   |
| 204.705878 | 1 | 0.862373  | 109.055634 |
| 189.158362 | 1 | 2.484982  | 112.553176 |
| 179.008878 | 1 | 0.533096  | 95.226892  |
| 171.409845 | 1 | 0.783225  | 109.254711 |
| 179.152533 | 1 | 0.815707  | 100.909932 |
| 177.45246  | 1 | 9.164924  | 108.10943  |
| 176.050667 | 1 | 0.439652  | 101.86775  |
| 188.706911 | 1 | 10.417393 | 84.421959  |
| 177.162126 | 1 | 0.425969  | 102.461434 |
| 183.441482 | 1 | 1.884439  | 93.774571  |
| 187.971448 | 1 | 1.341456  | 98.202782  |
| 182.406341 | 1 | 0.200639  | 113.452075 |
| 163.705311 | 1 | 0.590296  | 80.529708  |
| 180.269688 | 1 | 0.148174  | 87.683077  |
| 186.502682 | 1 | 1.028594  | 92.87881   |
| 178.37687  | 1 | 0.707961  | 90.484326  |
| 163.505859 | 1 | 0.888316  | 92.355521  |
| 164.023043 | 1 | 0.225225  | 117.78842  |
| 171.873074 | 1 | 1.316684  | 100.824872 |
| 182.597358 | 1 | 0.526995  | 101.678239 |
| 173.878248 | 1 | 1.638033  | 134.023105 |
| 200.628704 | 1 | 0.319768  | 104.187558 |
| 177.830821 | 1 | 1.009956  | 121.380197 |
| 188.634493 | 1 | 0.469454  | 114.948341 |
| 192.395139 | 1 | 0.490751  | 115.396188 |
| 175.414601 | 1 | 7.779151  | 76.429172  |
| 161.5519   | 1 | 7.568528  | 107.767551 |
| 170.984975 | 1 | 0.282389  | 102.531249 |
| 180.99036  | 1 | 0.991506  | 91.75343   |
| 182.709874 | 1 | 0.322718  | 101.198657 |
| 188.954316 | 1 | 5.08944   | 114.978559 |
| 159.254244 | 1 | 0.725931  | 100.293193 |
| 173.17638  | 1 | 2.784183  | 85.305919  |
| 181.528633 | 1 | 0.925753  | 96.606277  |
| 181.415731 | 1 | 0.275301  | 130.003775 |
| 179.26381  | 1 | 0.72278   | 58.511762  |
| 177.59209  | 1 | 1.33718   | 92.337223  |
| 194.696116 | 1 | 1.12382   | 80.309144  |
| 188.379629 | 1 | 1.856242  | 105.517984 |
| 166.685771 | 1 | 3.114951  | 108.960819 |
| 175.258531 | 1 | 4.583872  | 94.037529  |
| 177.396321 | 1 | 0.227418  | 89.626542  |
| 170.651463 | 1 | 2.912637  | 107.827987 |
| 178.01139  | 1 | 4.673198  | 78.379424  |
| 181.498461 | 1 | 2.610477  | 105.620029 |
| 170.414381 | 1 | 2.582294  | 103.457313 |
| 188.41992  | 1 | 0.208302  | 68.792008  |

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| 178.258158 | 1 | 0.895458  | 109.095589 |
| 187.062113 | 1 | 0.505861  | 111.711234 |
| 172.44933  | 1 | 1.602799  | 80.735674  |
| 183.111336 | 1 | 0.37634   | 82.731697  |
| 167.406181 | 1 | 0.482741  | 94.679217  |
| 202.835047 | 1 | 0.713956  | 99.593166  |
| 188.281154 | 1 | 1.999553  | 111.020109 |
| 168.753802 | 1 | 0.529125  | 120.657421 |
| 194.922853 | 1 | 0.269719  | 80.366033  |
| 177.27504  | 1 | 5.629404  | 98.559429  |
| 165.786553 | 1 | 1.084689  | 115.295507 |
| 175.677331 | 1 | 0.240222  | 84.187889  |
| 182.763875 | 1 | 3.056613  | 106.870442 |
| 172.916264 | 1 | 0.165917  | 121.946698 |
| 185.8654   | 1 | 5.707533  | 109.635249 |
| 177.646387 | 1 | 0.510897  | 113.393856 |
| 185.280117 | 1 | 1.528266  | 123.260395 |
| 160.762368 | 1 | 1.463137  | 95.961366  |
| 168.895206 | 1 | 0.519393  | 96.558     |
| 194.860279 | 1 | 1.153064  | 82.067038  |
| 182.070601 | 1 | 0.717488  | 102.74801  |
| 188.940629 | 1 | 0.139001  | 98.70692   |
| 167.769752 | 1 | 1.178145  | 100.615785 |
| 167.322894 | 1 | 1.19686   | 82.225495  |
| 177.521945 | 1 | 1.938176  | 108.880022 |
| 178.12519  | 1 | 3.681012  | 85.317038  |
| 190.154645 | 1 | 0.279838  | 82.090435  |
| 190.157191 | 1 | 2.773436  | 113.03523  |
| 177.100758 | 1 | 0.184204  | 98.879599  |
| 185.029369 | 1 | 0.604122  | 104.794833 |
| 189.504811 | 1 | 6.095316  | 85.766215  |
| 172.310245 | 1 | 0.278827  | 106.870442 |
| 172.601067 | 1 | 1.149328  | 107.87403  |
| 177.00168  | 1 | 1.093972  | 104.062423 |
| 185.046741 | 1 | 0.530166  | 106.547049 |
| 162.784266 | 1 | 0.937397  | 99.791731  |
| 191.994484 | 1 | 6.421741  | 96.636888  |
| 199.232812 | 1 | 1.604993  | 107.4946   |
| 180.130433 | 1 | 1.729932  | 104.675428 |
| 167.106366 | 1 | 0.706239  | 97.255486  |
| 180.183991 | 1 | 10.828142 | 131.812351 |
| 194.784518 | 1 | 0.83747   | 104.13628  |
| 181.637864 | 1 | 0.659936  | 109.687483 |
| 192.62772  | 1 | 3.307387  | 84.993065  |
| 190.560098 | 1 | 0.268939  | 97.681505  |
| 183.690934 | 1 | 0.833443  | 102.667537 |
| 172.398375 | 1 | 1.064577  | 74.221691  |
| 175.590656 | 1 | 0.936751  | 85.514     |
| 193.392582 | 1 | 2.428416  | 89.077367  |
| 184.546337 | 1 | 0.119672  | 72.245723  |



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| 187.031713 | 1 | 3.898406  | 87.448462  |
| 170.570632 | 1 | 1.632104  | 113.833824 |
| 158.976666 | 1 | 0.994774  | 103.771549 |
| 179.476131 | 1 | 1.257929  | 111.666145 |
| 189.979408 | 1 | 0.921853  | 118.951778 |
| 189.03342  | 1 | 1.683101  | 97.923913  |
| 175.051212 | 1 | 4.637168  | 130.333376 |
| 173.268784 | 1 | 0.724237  | 110.958564 |
| 182.86974  | 1 | 0.528976  | 126.611042 |
| 169.321577 | 1 | 1.118984  | 59.47328   |
| 185.373568 | 1 | 1.876885  | 102.799374 |
| 164.025771 | 1 | 3.495499  | 102.558022 |
| 194.542456 | 1 | 0.402743  | 103.759698 |
| 196.211561 | 1 | 1.479876  | 103.144595 |
| 173.385381 | 1 | 3.100036  | 102.006595 |
| 192.799364 | 1 | 4.820928  | 119.932429 |
| 187.004314 | 1 | 0.410391  | 98.094086  |
| 189.242467 | 1 | 1.53378   | 92.218005  |
| 169.045591 | 1 | 0.653351  | 122.224867 |
| 192.66003  | 1 | 0.550902  | 83.461362  |
| 175.663052 | 1 | 0.591594  | 112.62988  |
| 192.499709 | 1 | 0.296857  | 113.756778 |
| 164.044916 | 1 | 0.517129  | 106.436153 |
| 171.019376 | 1 | 3.237624  | 75.497121  |
| 210.157389 | 1 | 6.452419  | 108.019288 |
| 175.731025 | 1 | 4.793188  | 80.945836  |
| 175.842211 | 1 | 0.794022  | 59.897832  |
| 186.701498 | 1 | 0.178302  | 67.955591  |
| 176.886254 | 1 | 5.914448  | 92.008509  |
| 162.60646  | 1 | 0.902859  | 103.142259 |
| 180.495527 | 1 | 1.114172  | 103.430216 |
| 189.004702 | 1 | 0.155318  | 108.933398 |
| 188.958887 | 1 | 0.893186  | 80.740927  |
| 177.447719 | 1 | 1.678248  | 96.453073  |
| 184.475191 | 1 | 0.757615  | 96.096852  |
| 198.098763 | 1 | 1.517575  | 102.20939  |
| 184.470962 | 1 | 0.904805  | 102.575484 |
| 180.82905  | 1 | 1.933754  | 117.44088  |
| 174.553821 | 1 | 2.348617  | 131.228046 |
| 182.837078 | 1 | 1.065312  | 122.718245 |
| 179.803777 | 1 | 0.528233  | 107.698111 |
| 195.91693  | 1 | 0.23301   | 112.300859 |
| 209.05872  | 1 | 3.617143  | 81.982319  |
| 161.672227 | 1 | 0.382469  | 101.382949 |
| 181.380965 | 1 | 0.081151  | 122.457948 |
| 196.806189 | 1 | 0.743614  | 113.2678   |
| 189.645146 | 1 | 1.44146   | 92.836399  |
| 181.956619 | 1 | 18.679166 | 115.40202  |
| 191.531529 | 1 | 0.290289  | 87.771275  |
| 190.166173 | 1 | 0.132674  | 99.989103  |



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| 178.931969 | 1 | 1.861758  | 92.67651   |
| 172.224639 | 1 | 0.430851  | 118.558126 |
| 169.992853 | 1 | 1.385222  | 93.699453  |
| 168.455079 | 1 | 0.918956  | 89.340461  |
| 154.831735 | 1 | 0.521757  | 126.806947 |
| 168.022773 | 1 | 0.86451   | 103.169237 |
| 186.680443 | 1 | 0.547182  | 103.866364 |
| 188.026223 | 1 | 5.003591  | 104.740536 |
| 192.065448 | 1 | 6.396967  | 106.975097 |
| 175.59825  | 1 | 1.501112  | 103.601241 |
| 167.402771 | 1 | 0.413052  | 110.806298 |
| 161.267774 | 1 | 1.715112  | 100.96972  |
| 175.121129 | 1 | 1.325613  | 116.808963 |
| 176.282031 | 1 | 1.579211  | 84.271619  |
| 189.71113  | 1 | 0.397156  | 93.106621  |
| 173.57367  | 1 | 5.061835  | 98.614749  |
| 190.274493 | 1 | 0.451846  | 97.653623  |
| 183.01352  | 1 | 10.771957 | 105.120853 |
| 188.970324 | 1 | 1.079291  | 90.76195   |
| 191.428028 | 1 | 18.186981 | 98.120688  |
| 186.224491 | 1 | 1.854694  | 117.517789 |
| 182.79806  | 1 | 0.871082  | 99.108468  |
| 178.244948 | 1 | 0.263954  | 83.73878   |
| 184.040476 | 1 | 1.716024  | 127.628221 |
| 174.596362 | 1 | 6.050413  | 130.158071 |
| 188.22738  | 1 | 0.291434  | 82.919553  |
| 179.019633 | 1 | 1.937623  | 105.297574 |
| 173.073675 | 1 | 1.358853  | 88.290301  |
| 171.57244  | 1 | 0.340959  | 106.838604 |
| 197.725915 | 1 | 0.34254   | 104.52149  |
| 184.041294 | 1 | 6.059775  | 104.383583 |
| 180.675618 | 1 | 8.208208  | 93.041513  |
| 190.422173 | 1 | 0.26557   | 81.285464  |
| 170.613514 | 1 | 3.876732  | 102.446325 |
| 180.533066 | 1 | 1.19296   | 106.827145 |
| 178.135308 | 1 | 0.17673   | 104.076713 |
| 185.113748 | 1 | 0.783348  | 94.168923  |
| 198.071296 | 1 | 0.362884  | 72.104661  |
| 175.833036 | 1 | 0.744744  | 87.847895  |
| 194.925172 | 1 | 1.978546  | 105.923999 |
| 186.050868 | 1 | 0.90808   | 121.856727 |
| 196.048625 | 1 | 0.899048  | 85.493878  |
| 200.228163 | 1 | 3.636869  | 81.827921  |
| 189.11657  | 1 | 0.710494  | 89.449481  |
| 199.890649 | 1 | 2.342426  | 103.108255 |
| 179.4723   | 1 | 2.728489  | 64.629569  |
| 180.174805 | 1 | 1.50724   | 140.660962 |
| 195.271962 | 1 | 5.472654  | 116.623221 |
| 173.271661 | 1 | 1.522654  | 94.137988  |
| 181.71467  | 1 | 1.902017  | 95.226892  |

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| 168.922104 | 1 | 0.875532 | 84.06937   |
| 179.789225 | 1 | 0.77842  | 130.351111 |
| 194.061743 | 1 | 0.34147  | 98.986573  |
| 183.266678 | 1 | 0.31747  | 89.030948  |
| 180.781461 | 1 | 0.138925 | 68.548082  |
| 172.259768 | 1 | 3.159239 | 103.529226 |
| 160.786652 | 1 | 3.236638 | 87.591195  |
| 174.388031 | 1 | 0.282581 | 98.718431  |
| 163.520775 | 1 | 0.975628 | 103.256122 |
| 190.625808 | 1 | 0.672556 | 97.590885  |
| 179.905526 | 1 | 1.543857 | 128.944578 |
| 191.746874 | 1 | 1.776722 | 97.891462  |
| 191.266388 | 1 | 6.853342 | 89.893098  |
| 188.914412 | 1 | 0.344634 | 91.339178  |
| 186.087657 | 1 | 3.177617 | 67.944268  |
| 187.80957  | 1 | 0.55206  | 91.590113  |
| 182.900833 | 1 | 2.210594 | 106.299285 |
| 179.226975 | 1 | 0.29291  | 105.060076 |
| 176.582051 | 1 | 0.319908 | 125.332611 |
| 173.397751 | 1 | 6.146085 | 89.943439  |
| 178.795693 | 1 | 1.763651 | 87.650881  |
| 198.670744 | 1 | 0.717605 | 96.229644  |
| 179.986608 | 1 | 0.291434 | 94.959364  |
| 195.155138 | 1 | 0.157391 | 82.660245  |
| 172.744142 | 1 | 1.230057 | 96.858918  |
| 197.331331 | 1 | 0.514574 | 110.353062 |
| 167.475189 | 1 | 4.572734 | 119.274762 |
| 184.012259 | 1 | 0.638293 | 75.294531  |
| 184.648359 | 1 | 2.010887 | 84.592148  |
| 169.22367  | 1 | 0.766628 | 111.116526 |
| 205.260306 | 1 | 6.264087 | 120.221887 |
| 185.923653 | 1 | 0.937111 | 107.137885 |
| 169.672187 | 1 | 2.029089 | 109.862021 |
| 165.413342 | 1 | 1.145431 | 76.60891   |
| 163.496946 | 1 | 0.958163 | 88.622051  |
| 175.561132 | 1 | 0.916842 | 78.450501  |
| 163.981797 | 1 | 1.335795 | 127.32113  |
| 167.293791 | 1 | 0.384325 | 69.798409  |
| 162.113513 | 1 | 0.330055 | 135.596349 |
| 172.974153 | 1 | 4.926801 | 87.897229  |
| 176.99528  | 1 | 0.292244 | 75.902028  |
| 190.644658 | 1 | 0.428879 | 118.01294  |
| 187.368794 | 1 | 1.153688 | 87.740853  |
| 178.502312 | 1 | 7.023079 | 103.02154  |
| 178.463625 | 1 | 1.406103 | 103.721823 |
| 170.970036 | 1 | 0.520771 | 86.109901  |
| 193.172667 | 1 | 0.240933 | 119.650201 |
| 190.126496 | 1 | 1.167513 | 108.989639 |
| 174.377288 | 1 | 1.774479 | 102.004276 |
| 196.853483 | 1 | 1.284552 | 112.683938 |

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| 170.341439 | 1 | 3.497844 | 102.538241 |
| 188.04207  | 1 | 1.810902 | 83.18026   |
| 194.535863 | 1 | 5.745684 | 86.074602  |
| 183.450407 | 1 | 6.131457 | 94.510239  |
| 173.113488 | 1 | 1.515298 | 111.462259 |
| 177.945031 | 1 | 0.732616 | 95.781423  |
| 187.052313 | 1 | 0.976226 | 84.938086  |
| 161.484416 | 1 | 2.629277 | 117.315165 |
| 171.540767 | 1 | 2.933706 | 105.807561 |
| 183.452033 | 1 | 2.627998 | 73.682816  |
| 176.21225  | 1 | 1.332284 | 109.070777 |
| 168.029049 | 1 | 0.273412 | 104.335698 |
| 182.49936  | 1 | 3.303764 | 77.535026  |
| 187.536437 | 1 | 0.380472 | 133.729248 |
| 162.910822 | 1 | 2.332169 | 71.216266  |
| 175.64792  | 1 | 1.754025 | 77.999619  |
| 172.377934 | 1 | 0.490606 | 89.745743  |
| 184.025537 | 1 | 0.54082  | 120.035566 |
| 177.904388 | 1 | 1.668747 | 100.809933 |
| 174.914992 | 1 | 0.649964 | 118.121978 |
| 181.746503 | 1 | 1.918775 | 107.560971 |
| 170.342667 | 1 | 2.622876 | 101.804159 |
| 170.640799 | 1 | 0.517325 | 109.029475 |
| 175.993539 | 1 | 0.936823 | 110.723147 |
| 199.193976 | 1 | 0.388414 | 72.117621  |
| 161.659903 | 1 | 0.228146 | 92.644177  |
| 178.592762 | 1 | 1.825201 | 75.182459  |
| 183.714695 | 1 | 0.480527 | 79.41045   |
| 182.704314 | 1 | 0.463106 | 112.082137 |
| 195.601836 | 1 | 0.868998 | 78.427923  |
| 163.14338  | 1 | 1.236034 | 63.202572  |
| 182.852198 | 1 | 0.266646 | 95.536115  |
| 169.7527   | 1 | 0.436354 | 105.011509 |
| 183.965056 | 1 | 0.413472 | 103.413726 |
| 186.982827 | 1 | 0.269621 | 104.413528 |
| 171.470531 | 1 | 2.949819 | 91.937005  |
| 177.853524 | 1 | 0.778358 | 79.594349  |
| 174.687323 | 1 | 3.543633 | 96.868314  |
| 167.20757  | 1 | 1.548279 | 88.500804  |
| 183.970842 | 1 | 0.476589 | 86.971454  |
| 184.230458 | 1 | 0.888247 | 92.777191  |
| 178.665362 | 1 | 6.627399 | 111.63047  |
| 184.839285 | 1 | 1.455704 | 102.495182 |
| 183.486161 | 1 | 0.190035 | 81.858957  |
| 203.248322 | 1 | 1.713595 | 120.281846 |
| 171.361051 | 1 | 0.427095 | 89.967841  |
| 183.768855 | 1 | 1.609122 | 94.4857    |
| 158.806227 | 1 | 2.241081 | 85.881016  |
| 178.710109 | 1 | 4.076958 | 92.726885  |
| 189.831979 | 1 | 0.507473 | 106.531906 |

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| 171.251661 | 1 | 0.748618 | 83.175962  |
| 176.488634 | 1 | 0.537077 | 80.743553  |
| 174.091831 | 1 | 0.516784 | 113.685292 |
| 176.346708 | 1 | 0.72278  | 87.368483  |
| 188.46253  | 1 | 0.698517 | 107.559674 |
| 178.742499 | 1 | 0.313949 | 75.128162  |
| 198.154151 | 1 | 3.814789 | 110.493289 |
| 175.593191 | 1 | 0.221968 | 125.940517 |
| 168.34262  | 1 | 0.614822 | 119.266918 |
| 186.391565 | 1 | 0.327813 | 94.769547  |
| 178.975807 | 1 | 0.702743 | 115.216585 |
| 178.334999 | 1 | 0.08315  | 77.227458  |
| 163.864791 | 1 | 0.757494 | 80.000757  |
| 171.824029 | 1 | 2.627998 | 97.271823  |
| 174.306359 | 1 | 1.229768 | 89.654236  |
| 172.120706 | 1 | 0.139149 | 102.972376 |
| 166.852799 | 1 | 0.73191  | 121.185519 |
| 178.814178 | 1 | 1.090114 | 90.788297  |
| 190.972553 | 1 | 0.342959 | 95.587666  |
| 173.415827 | 1 | 0.773577 | 87.029912  |
| 178.938119 | 1 | 4.786937 | 119.417121 |
| 179.274542 | 1 | 0.463964 | 78.460187  |
| 188.898496 | 1 | 1.38746  | 72.346745  |
| 177.554278 | 1 | 0.518407 | 81.340306  |
| 204.990732 | 1 | 1.163724 | 96.918723  |
| 156.165418 | 1 | 0.758639 | 90.743925  |
| 180.007265 | 1 | 0.511142 | 107.754454 |
| 172.756079 | 1 | 0.682283 | 127.895339 |
| 178.760234 | 1 | 0.589258 | 100.057946 |
| 193.218323 | 1 | 0.688251 | 92.402519  |
| 183.609989 | 1 | 0.23301  | 115.698572 |
| 176.899908 | 1 | 0.130866 | 92.948096  |
| 167.456727 | 1 | 0.249898 | 84.19587   |
| 175.800476 | 1 | 0.147259 | 115.938713 |
| 172.268022 | 1 | 1.956215 | 73.090394  |
| 192.037003 | 1 | 1.214695 | 96.863608  |
| 174.5014   | 1 | 1.424503 | 98.111446  |
| 175.727671 | 1 | 1.990254 | 100.152045 |
| 180.337036 | 1 | 0.425407 | 94.340578  |
| 174.23153  | 1 | 4.461812 | 116.699755 |
| 191.041243 | 1 | 1.888675 | 94.453759  |
| 180.90813  | 1 | 0.399809 | 105.910357 |
| 179.985846 | 1 | 0.259627 | 96.220163  |
| 179.195518 | 1 | 1.884793 | 125.022791 |
| 168.629111 | 1 | 4.113347 | 91.188258  |
| 180.799878 | 1 | 1.766348 | 110.931603 |
| 178.23408  | 1 | 1.255462 | 85.468196  |
| 168.289642 | 1 | 2.331914 | 78.752066  |
| 173.073675 | 1 | 0.672166 | 96.111092  |
| 186.192954 | 1 | 1.36563  | 104.373999 |

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| 190.520102 | 1 | 0.477309  | 120.527887 |
| 186.909795 | 1 | 0.274187  | 89.162461  |
| 184.937556 | 1 | 3.872274  | 119.126401 |
| 170.025617 | 1 | 0.501085  | 106.864082 |
| 191.066595 | 1 | 0.640996  | 103.744299 |
| 167.034016 | 1 | 0.293148  | 117.751381 |
| 186.659434 | 1 | 0.659001  | 123.519669 |
| 165.210889 | 1 | 0.827174  | 94.630309  |
| 191.183079 | 1 | 3.163933  | 114.453121 |
| 194.809666 | 1 | 2.493642  | 85.240879  |
| 182.583113 | 1 | 0.632099  | 105.311011 |
| 188.818097 | 1 | 1.395103  | 86.944664  |
| 183.062394 | 1 | 0.544073  | 124.211204 |
| 165.079467 | 1 | 0.292863  | 116.119441 |
| 162.946974 | 1 | 0.915224  | 113.996168 |
| 189.30952  | 1 | 2.579201  | 105.038214 |
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| 182.700358 | 1 | 2.998024  | 131.524633 |
| 175.610051 | 1 | 0.254233  | 119.227696 |
| 171.253912 | 1 | 1.396909  | 106.643108 |
| 174.442578 | 1 | 0.976451  | 97.739553  |
| 168.438685 | 1 | 1.117864  | 96.946826  |
| 172.385096 | 1 | 1.368815  | 100.921426 |
| 183.591208 | 1 | 1.968085  | 117.241632 |
| 170.413153 | 1 | 1.048871  | 123.758002 |
| 198.502851 | 1 | 1.07896   | 101.093935 |
| 186.559503 | 1 | 1.913342  | 98.037401  |
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| 176.480494 | 1 | 2.484982  | 112.981752 |
| 174.738346 | 1 | 15.178229 | 80.974076  |
| 184.414392 | 1 | 2.487289  | 90.199149  |
| 192.560076 | 1 | 3.955046  | 124.29606  |
| 163.816815 | 1 | 1.10504   | 78.689311  |
| 162.85457  | 1 | 1.342744  | 103.397236 |
| 175.011399 | 1 | 6.313676  | 92.868527  |
| 178.164094 | 1 | 0.760148  | 121.913274 |
| 196.149261 | 1 | 1.068666  | 98.653936  |
| 177.549548 | 1 | 2.97186   | 55.078238  |
| 181.8538   | 1 | 0.502107  | 107.758376 |
| 171.136679 | 1 | 1.303172  | 124.652195 |
| 172.892651 | 1 | 0.907941  | 117.728291 |
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| 193.022941 | 1 | 0.45194   | 94.193684  |
| 181.779131 | 1 | 0.998356  | 93.560061  |
| 167.918682 | 1 | 0.313479  | 93.711987  |
| 199.68483  | 1 | 4.938914  | 92.804237  |
| 163.526686 | 1 | 0.980344  | 93.442839  |
| 196.38773  | 1 | 0.17008   | 86.451576  |
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| 173.024971 | 1 | 1.566546  | 117.128809 |
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| 176.682436 | 1 | 1.609122  | 70.830731  |
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| 161.668134 | 1 | 0.429208  | 118.01294  |
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| 180.899684 | 1 | 0.950344  | 97.397725  |
| 169.451908 | 1 | 7.853438  | 114.716352 |
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| 186.862297 | 1 | 0.534438  | 97.0288    |
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| 186.597486 | 1 | 0.899186  | 88.174818  |
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| 187.08078  | 1 | 1.605681  | 128.640488 |
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| 182.482    | 1 | 0.245986  | 122.255836 |
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| 186.259802 | 1 | 3.882677 | 107.475109 |
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| 158.681808 | 1 | 0.314513 | 113.955446 |
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| 165.958812 | 1 | 0.713726 | 89.954915  |
| 168.714853 | 1 | 0.286226 | 89.996525  |
| 171.824029 | 1 | 1.846995 | 67.784788  |
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| 178.598946 | 1 | 0.296524 | 101.085886 |
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| 189.127007 | 1 | 1.025686 | 53.812221  |
| 188.004076 | 1 | 1.810573 | 102.330108 |
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| 172.674293 | 1 | 0.643273 | 90.530591  |
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| 184.745743 | 1 | 1.093468 | 108.614779 |
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| 167.438241 | 1 | 1.317311 | 103.222067 |
| 180.951161 | 1 | 3.99763  | 101.638983 |
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| 174.891482 | 1 | 3.459066 | 112.55969  |
| 182.137085 | 1 | 0.697378 | 115.155297 |
| 190.850454 | 1 | 0.623855 | 74.700813  |
| 180.964224 | 1 | 0.325524 | 101.392175 |
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| 172.343101 | 1 | 0.538024 | 75.91874   |
| 177.135046 | 1 | 0.372721 | 91.477068  |
| 195.91693  | 1 | 4.091259 | 109.751193 |
| 190.540089 | 1 | 0.813161 | 126.767384 |
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| 174.144582 | 1 | 2.703165 | 105.541312 |
| 189.508403 | 1 | 0.023716 | 84.022918  |
| 192.983742 | 1 | 1.542818 | 110.344314 |



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| 179.265333 | 1 | 0.876208  | 82.664713  |
| 166.841908 | 1 | 1.216875  | 110.124177 |
| 167.134424 | 1 | 1.239328  | 106.125515 |
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| 171.356617 | 1 | 0.697663  | 94.943573  |
| 190.724534 | 1 | 1.696749  | 131.020545 |
| 169.172943 | 1 | 0.148944  | 93.935569  |
| 183.658204 | 1 | 3.593918  | 112.585781 |
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| 179.506008 | 1 | 0.568178  | 105.505706 |
| 159.894619 | 1 | 0.223914  | 131.736636 |
| 161.342353 | 1 | 0.283733  | 105.383146 |
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| 174.128234 | 1 | 1.820027  | 89.697858  |
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| 162.887721 | 1 | 1.304931  | 118.420747 |
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| 180.28806  | 1 | 1.576933  | 89.253115  |
| 172.784888 | 1 | 3.657485  | 128.245677 |
| 176.139013 | 1 | 0.348817  | 85.385421  |
| 179.754027 | 1 | 0.721149  | 109.01573  |
| 166.814601 | 1 | 0.333414  | 82.169766  |
| 174.178143 | 1 | 0.260712  | 107.280858 |
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| 178.45046  | 1 | 0.340959  | 91.454149  |
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| 185.753111 | 1 | 1.187505  | 108.660822 |



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| 172.804571 | 2 |          | 50.134082  |
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| 159.962131 | 2 |          | 48.375938  |
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| 156.823567 | 2 |          | 49.373949  |
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| 171.636257 | 2 |          | 52.586563  |
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| 138.220869 | 3 |  |  |
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| 129.485218 | 3 |  |  |  |
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| 153.065937 | 3 |  |  |  |
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| 148.506368 | 3 |  |  |  |
| 135.833036 | 3 |  |  |  |
| 140.322495 | 3 |  |  |  |
| 136.90873  | 3 |  |  |  |
| 153.218323 | 3 |  |  |  |

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|------------|---|--|--|--|
| 141.716217 | 3 |  |  |  |
| 139.460044 | 3 |  |  |  |
| 144.350397 | 3 |  |  |  |
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| 159.716754 | 3 |  |  |  |
| 138.851922 | 3 |  |  |  |
| 141.958188 | 3 |  |  |  |
| 164.247129 | 3 |  |  |  |
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| 150.305666 | 3 |  |  |  |
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| 151.684574 | 3 |  |  |  |
| 143.754894 | 3 |  |  |  |
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| 132.515291 | 3 |  |  |  |
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| 136.087854 | 3 |  |  |  |
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| 126.128978 | 3 |  |  |  |
| 129.858179 | 3 |  |  |  |
| 154.927537 | 3 |  |  |  |
| 139.605552 | 3 |  |  |  |
| 125.905288 | 3 |  |  |  |
| 135.89636  | 3 |  |  |  |
| 140.387558 | 3 |  |  |  |
| 135.246549 | 3 |  |  |  |
| 149.397195 | 3 |  |  |  |
| 136.936799 | 3 |  |  |  |
| 140.173281 | 3 |  |  |  |
| 130.719948 | 3 |  |  |  |

133.936274

3



| skupina | Před       | Po         | výška      | váha      | Pohlavi |
|---------|------------|------------|------------|-----------|---------|
| 1       | 106.562345 | 120.661649 | 144.132076 | 49.801555 | muz     |
| 1       | 96.644431  | 107.811381 | 153.550121 | 55.967315 | zena    |
| 1       | 98.549492  | 114.282264 | 155.459023 | 60.706482 | muz     |
| 1       | 93.991344  | 112.820764 | 155.528472 | 57.638998 | zena    |
| 1       | 98.454336  | 117.049387 | 156.334993 | 58.98204  | zena    |
| 1       | 77.664629  | 97.864028  | 157.979883 | 61.547306 | zena    |
| 1       | 98.664589  | 107.113826 | 164.155074 | 63.191099 | zena    |
| 1       | 86.708008  | 101.005464 | 155.178907 | 60.733367 | muz     |
| 1       | 101.565797 | 119.850865 | 154.945049 | 61.369841 | muz     |
| 1       | 105.030233 | 116.770131 | 161.511201 | 57.630212 | muz     |
| 1       | 113.170848 | 126.100235 | 158.314031 | 68.098751 | zena    |
| 1       | 93.807046  | 103.735749 | 158.248961 | 62.54046  | muz     |
| 1       | 92.520361  | 101.979628 | 160.181465 | 67.449726 | muz     |
| 1       | 101.46365  | 113.530761 | 158.073733 | 59.194889 | zena    |
| 1       | 97.6857    | 110.365179 | 162.307027 | 65.181542 | muz     |
| 1       | 97.916893  | 106.5631   | 152.068726 | 66.297215 | muz     |
| 1       | 115.772002 | 129.068228 | 153.035119 | 67.82196  | muz     |
| 1       | 100.376849 | 114.164706 | 162.886366 | 67.772351 | muz     |
| 1       | 98.540216  | 113.944775 | 163.833859 | 62.907755 | zena    |
| 1       | 118.303217 | 132.206738 | 160.751127 | 69.769411 | zena    |
| 1       | 93.692654  | 107.711682 | 164.961905 | 66.203619 | muz     |
| 1       | 112.711371 | 126.600649 | 165.207087 | 69.472133 | muz     |
| 1       | 99.846614  | 118.874538 | 165.128852 | 54.432483 | muz     |
| 1       | 99.355828  | 114.099974 | 159.96078  | 65.649673 | zena    |
| 1       | 116.101558 | 130.543085 | 161.380142 | 66.742376 | muz     |
| 1       | 103.626315 | 117.086692 | 157.199022 | 70.240111 | zena    |
| 1       | 104.370588 | 125.287224 | 166.108942 | 64.692802 | zena    |
| 1       | 97.648752  | 115.24577  | 169.157004 | 68.378011 | zena    |
| 1       | 106.833272 | 128.960237 | 162.120667 | 70.039531 | muz     |
| 1       | 99.31365   | 112.34893  | 160.628554 | 67.304921 | muz     |
| 1       | 92.639232  | 112.623599 | 168.365616 | 66.835263 | muz     |
| 1       | 89.024673  | 99.18748   | 168.005547 | 66.805877 | muz     |
| 1       | 102.037007 | 118.653852 | 165.579325 | 62.501902 | zena    |
| 1       | 90.18662   | 107.893195 | 163.742991 | 71.486037 | muz     |
| 1       | 119.395793 | 140.15254  | 156.545923 | 66.265446 | muz     |
| 1       | 98.727844  | 113.474293 | 162.151717 | 69.072492 | muz     |
| 1       | 84.123679  | 97.552293  | 162.22183  | 64.773752 | zena    |
| 1       | 96.646852  | 113.672267 | 163.356361 | 65.023431 | zena    |
| 1       | 109.572318 | 123.428347 | 160.110583 | 71.12946  | zena    |
| 1       | 96.1703    | 113.443134 | 156.64383  | 68.367607 | zena    |
| 1       | 93.461358  | 104.128798 | 158.740652 | 64.025388 | zena    |
| 1       | 86.336161  | 98.794448  | 165.524419 | 62.137204 | muz     |
| 1       | 103.161153 | 113.59644  | 166.461789 | 65.67527  | muz     |
| 1       | 98.36291   | 112.274278 | 158.810583 | 65.252323 | zena    |
| 1       | 105.712536 | 120.615099 | 165.771665 | 68.061389 | zena    |
| 1       | 93.626261  | 108.710612 | 167.657366 | 59.941802 | zena    |
| 1       | 96.538224  | 110.570076 | 166.442117 | 71.728335 | muz     |
| 1       | 102.859383 | 124.442888 | 162.286558 | 67.95837  | zena    |
| 1       | 96.689712  | 106.462264 | 158.616152 | 67.918289 | muz     |

|   |            |            |            |           |      |
|---|------------|------------|------------|-----------|------|
| 1 | 102.122215 | 114.912784 | 162.961403 | 70.76709  | muz  |
| 1 | 75.261744  | 82.529002  | 159.602389 | 61.159252 | muz  |
| 1 | 99.311353  | 118.654363 | 157.521275 | 70.24323  | zena |
| 1 | 102.468596 | 113.629305 | 159.473105 | 72.14984  | muz  |
| 1 | 121.164942 | 134.204202 | 156.502859 | 73.807749 | zena |
| 1 | 84.747683  | 102.020824 | 162.368736 | 66.492192 | muz  |
| 1 | 84.413671  | 100.813806 | 163.703456 | 79.201835 | zena |
| 1 | 76.952313  | 94.576139  | 165.032982 | 70.307259 | zena |
| 1 | 111.722523 | 128.509748 | 160.64628  | 64.564418 | zena |
| 1 | 123.743632 | 134.628083 | 168.720256 | 69.288843 | zena |
| 1 | 96.100246  | 107.75303  | 164.1107   | 66.582105 | muz  |
| 1 | 89.991602  | 107.073585 | 162.407353 | 66.738874 | zena |
| 1 | 105.479933 | 121.447842 | 158.438364 | 62.100988 | muz  |
| 1 | 106.58988  | 118.770367 | 164.722199 | 65.486728 | muz  |
| 1 | 91.479331  | 105.756487 | 165.210361 | 68.477119 | zena |
| 1 | 108.092911 | 123.487518 | 166.449516 | 67.602048 | muz  |
| 1 | 106.602249 | 123.275642 | 172.371777 | 69.143437 | zena |
| 1 | 97.925488  | 113.341633 | 162.8      | 69.382557 | muz  |
| 1 | 84.51849   | 96.785606  | 170.217311 | 76.015875 | zena |
| 1 | 110.127769 | 130.782307 | 164.268711 | 69.613701 | zena |
| 1 | 107.634344 | 124.095938 | 171.726509 | 73.613436 | zena |
| 1 | 96.495148  | 111.711865 | 168.707768 | 70.584527 | muz  |
| 1 | 93.092138  | 110.581661 | 165.255413 | 72.635074 | zena |
| 1 | 108.626716 | 126.21274  | 166.340949 | 63.79866  | muz  |
| 1 | 103.468278 | 116.558684 | 164.327023 | 72.232195 | muz  |
| 1 | 105.562788 | 117.793213 | 168.337504 | 74.244147 | muz  |
| 1 | 120.858897 | 139.192464 | 161.702513 | 74.165985 | zena |
| 1 | 102.733691 | 114.130155 | 165.694667 | 75.815227 | muz  |
| 1 | 88.933405  | 99.256729  | 168.507229 | 68.14277  | muz  |
| 1 | 104.796323 | 121.930297 | 167.701422 | 61.027339 | muz  |
| 1 | 87.714614  | 104.629832 | 168.278578 | 66.667029 | zena |
| 1 | 105.655897 | 127.272963 | 169.723619 | 73.408722 | zena |
| 1 | 98.434976  | 117.76624  | 162.485378 | 72.440165 | muz  |
| 1 | 102.988713 | 121.900425 | 166.995535 | 70.366326 | muz  |
| 1 | 103.570824 | 118.909705 | 170.364386 | 70.244485 | muz  |
| 1 | 101.313038 | 116.31889  | 164.376518 | 65.137509 | zena |
| 1 | 97.280611  | 113.641715 | 167.902802 | 67.730042 | muz  |
| 1 | 86.526336  | 101.449792 | 163.832058 | 68.328121 | muz  |
| 1 | 121.208234 | 133.044209 | 166.591301 | 75.098895 | zena |
| 1 | 115.976957 | 125.652539 | 167.339224 | 70.762515 | muz  |
| 1 | 110.488225 | 127.973219 | 167.055485 | 73.507511 | muz  |
| 1 | 85.220029  | 101.552702 | 171.105642 | 74.92671  | zena |
| 1 | 88.826926  | 105.680644 | 173.151141 | 79.719428 | zena |
| 1 | 105.326774 | 120.967194 | 163.865537 | 66.910964 | zena |
| 1 | 100.735429 | 112.654636 | 165.784284 | 71.258636 | muz  |
| 1 | 99.910119  | 118.624705 | 167.523765 | 68.880616 | zena |
| 1 | 101.612284 | 115.678644 | 164.974552 | 74.573025 | muz  |
| 1 | 81.183009  | 93.663244  | 174.859154 | 71.555649 | zena |
| 1 | 97.432701  | 109.969317 | 168.925251 | 71.658827 | zena |
| 1 | 90.620631  | 104.333653 | 168.903837 | 72.454476 | muz  |

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|---|-----------|------------|------------|-----------|------|
| 1 | 90.024367 | 103.664282 | 160.956482 | 69.296969 | zena |
| 1 |           |            | 174.216    | 77.339508 | zena |
| 1 |           |            | 165.230643 | 73.333038 | muz  |
| 1 |           |            | 163.698499 | 67.931213 | zena |
| 1 |           |            | 172.59684  | 69.407186 | muz  |
| 1 |           |            | 168.681361 | 72.564865 | muz  |
| 1 |           |            | 167.435199 | 77.717931 | muz  |
| 1 |           |            | 159.364043 | 69.665842 | zena |
| 1 |           |            | 167.971378 | 68.649568 | muz  |
| 1 |           |            | 172.071539 | 68.667799 | muz  |
| 1 |           |            | 164.878618 | 75.908891 | muz  |
| 1 |           |            | 162.130794 | 71.136709 | muz  |
| 1 |           |            | 165.154227 | 68.792541 | zena |
| 1 |           |            | 166.236353 | 74.60719  | zena |
| 1 |           |            | 168.360146 | 73.956897 | zena |
| 1 |           |            | 166.899625 | 70.200839 | zena |
| 1 |           |            | 162.328818 | 72.91825  | zena |
| 1 |           |            | 162.853351 | 77.187836 | zena |
| 1 |           |            | 172.61755  | 77.334178 | zena |
| 1 |           |            | 166.553903 | 76.39101  | muz  |
| 1 |           |            | 175.362641 | 74.037979 | zena |
| 1 |           |            | 173.157635 | 81.348638 | zena |
| 1 |           |            | 171.433397 | 75.822239 | muz  |
| 1 |           |            | 161.409564 | 77.160492 | muz  |
| 1 |           |            | 170.896067 | 76.854374 | zena |
| 1 |           |            | 172.613871 | 72.89528  | zena |
| 1 |           |            | 169.578282 | 64.338704 | zena |
| 1 |           |            | 166.733555 | 75.499796 | muz  |
| 1 |           |            | 163.156226 | 78.797564 | zena |
| 1 |           |            | 170.915121 | 76.016962 | muz  |
| 1 |           |            | 171.314194 | 74.90495  | zena |
| 1 |           |            | 168.947707 | 78.805773 | muz  |
| 1 |           |            | 162.944578 | 80.881194 | muz  |
| 1 |           |            | 174.101768 | 73.242475 | muz  |
| 1 |           |            | 167.544938 | 74.309276 | muz  |
| 1 |           |            | 169.501862 | 65.029065 | zena |
| 1 |           |            | 163.052412 | 71.756543 | zena |
| 1 |           |            | 165.959748 | 64.511463 | muz  |
| 1 |           |            | 170.687315 | 71.546154 | muz  |
| 1 |           |            | 167.69747  | 77.634662 | zena |
| 1 |           |            | 167.487363 | 78.176839 | muz  |
| 1 |           |            | 165.514705 | 69.147039 | zena |
| 1 |           |            | 171.955365 | 74.026351 | muz  |
| 1 |           |            | 165.267641 | 75.888396 | muz  |
| 1 |           |            | 173.257343 | 77.738894 | muz  |
| 1 |           |            | 171.932978 | 75.655756 | muz  |
| 1 |           |            | 175.251219 | 78.812789 | zena |
| 1 |           |            | 164.093047 | 69.316482 | muz  |
| 1 |           |            | 173.326251 | 75.48674  | muz  |
| 1 |           |            | 169.062221 | 71.689927 | zena |



|   |            |           |      |
|---|------------|-----------|------|
| 1 | 176.258816 | 76.991886 | muz  |
| 1 | 165.267496 | 78.36007  | zena |
| 1 | 173.504057 | 79.971799 | muz  |
| 1 | 174.442678 | 76.971176 | muz  |
| 1 | 167.876795 | 77.271623 | muz  |
| 1 | 171.961045 | 76.535042 | muz  |
| 1 | 168.962945 | 78.561405 | muz  |
| 1 | 166.078146 | 79.832451 | muz  |
| 1 | 166.615067 | 68.603761 | muz  |
| 1 | 173.787746 | 75.839697 | muz  |
| 1 | 169.099838 | 72.50066  | muz  |
| 1 | 174.175437 | 77.3613   | zena |
| 1 | 173.459469 | 78.606853 | zena |
| 1 | 167.891165 | 74.993912 | zena |
| 1 | 179.806359 | 71.208068 | zena |
| 1 | 169.390226 | 76.356672 | zena |
| 1 | 158.468668 | 73.698232 | muz  |
| 1 | 171.625937 | 76.934801 | zena |
| 1 | 166.508142 | 85.328409 | muz  |
| 1 | 164.257101 | 77.591115 | zena |
| 1 | 179.407491 | 72.181509 | zena |
| 1 | 171.448381 | 74.450225 | zena |
| 1 | 169.45179  | 78.196711 | zena |
| 1 | 160.329922 | 74.566936 | muz  |
| 1 | 173.426909 | 78.0187   | muz  |
| 1 | 171.717823 | 83.979733 | zena |
| 1 | 171.223117 | 73.585928 | zena |
| 1 | 172.892936 | 72.477681 | zena |
| 1 | 166.891426 | 80.317228 | zena |
| 1 | 178.795765 | 69.181668 | zena |
| 1 | 165.339114 | 79.531186 | muz  |
| 1 | 172.322782 | 71.643643 | zena |
| 1 | 168.665086 | 72.387405 | zena |
| 1 | 170.591846 | 72.777364 | zena |
| 1 | 170.584906 | 75.899546 | zena |
| 1 | 171.893105 | 84.543766 | zena |
| 1 | 165.043796 | 72.125771 | muz  |
| 1 | 166.617399 | 78.235815 | zena |
| 1 | 168.311579 | 76.866134 | zena |
| 1 | 169.882594 | 82.904001 | muz  |
| 1 | 173.591723 | 73.255649 | zena |
| 1 | 171.019899 | 80.146004 | muz  |
| 1 | 166.672574 | 80.230296 | muz  |
| 1 | 181.639742 | 68.967182 | zena |
| 1 | 165.674744 | 82.011437 | zena |
| 1 | 169.695948 | 75.596993 | muz  |
| 1 | 173.955917 | 86.352487 | zena |
| 1 | 176.319743 | 78.044589 | muz  |
| 1 | 167.574779 | 73.197808 | zena |
| 1 | 172.280477 | 73.979926 | zena |

|   |            |           |      |
|---|------------|-----------|------|
| 1 | 174.461027 | 76.202887 | muz  |
| 1 | 172.453268 | 77.649716 | zena |
| 1 | 169.019534 | 74.968237 | zena |
| 1 | 171.649393 | 73.162531 | zena |
| 1 | 171.683458 | 69.947262 | zena |
| 1 | 167.840333 | 74.933899 | muz  |
| 1 | 178.520198 | 77.474673 | zena |
| 1 | 173.364154 | 76.38161  | muz  |
| 1 | 164.748056 | 79.120676 | muz  |
| 1 | 175.510839 | 75.054953 | muz  |
| 1 | 177.258251 | 72.514143 | zena |
| 1 | 172.036292 | 78.965585 | zena |
| 1 | 174.427592 | 79.026962 | muz  |
| 1 | 169.24508  | 75.252691 | zena |
| 1 | 172.085025 | 76.19188  | muz  |
| 1 | 178.001185 | 81.849015 | zena |
| 1 | 174.508839 | 78.945512 | muz  |
| 1 | 179.690444 | 80.672156 | muz  |
| 1 | 174.017776 | 81.182269 | zena |
| 1 | 173.917804 | 72.991919 | zena |
| 1 | 172.136877 | 71.18553  | muz  |
| 1 | 162.893887 | 84.849947 | zena |
| 1 | 180.142277 | 81.985462 | zena |
| 1 | 170.31864  | 78.695312 | zena |
| 1 | 172.384646 | 80.656744 | zena |
| 1 | 173.1723   | 82.243758 | muz  |
| 1 | 172.57871  | 73.912668 | zena |
| 1 | 169.152484 | 78.997199 | muz  |
| 1 | 169.013672 | 75.705151 | zena |
| 1 | 165.196719 | 80.118553 | muz  |
| 1 | 166.780972 | 72.817091 | muz  |
| 1 | 169.205453 | 76.814545 | muz  |
| 1 | 178.147377 | 77.481762 | zena |
| 1 | 167.866627 | 75.081151 | zena |
| 1 | 163.520347 | 77.522326 | muz  |
| 1 | 181.566741 | 73.358522 | zena |
| 1 | 171.647446 | 78.648057 | muz  |
| 1 | 177.038999 | 73.055979 | zena |
| 1 | 168.461118 | 80.56539  | zena |
| 1 | 167.553992 | 69.858559 | muz  |
| 1 | 169.431626 | 72.939159 | muz  |
| 1 | 171.868672 | 73.434083 | muz  |
| 1 | 171.815675 | 76.949708 | zena |
| 1 | 170.222484 | 71.090347 | muz  |
| 1 | 174.072368 | 72.895749 | muz  |
| 1 | 168.130521 | 75.303986 | muz  |
| 1 | 171.547243 | 73.055554 | zena |
| 1 | 172.615694 | 81.663641 | muz  |
| 1 | 176.236156 | 83.108108 | muz  |
| 1 | 173.87961  | 75.009417 | zena |

|   |            |           |      |
|---|------------|-----------|------|
| 1 | 172.885996 | 79.417683 | zena |
| 1 | 175.201192 | 79.485374 | muz  |
| 1 | 171.768652 | 81.269839 | zena |
| 1 | 176.491606 | 87.700808 | muz  |
| 1 | 176.747329 | 73.640857 | zena |
| 1 | 177.282835 | 85.92024  | muz  |
| 1 | 170.638985 | 71.781572 | muz  |
| 1 | 178.182334 | 78.460208 | zena |
| 1 | 175.880166 | 82.275677 | zena |
| 1 | 171.929687 | 78.589281 | muz  |
| 1 | 168.584932 | 74.054404 | muz  |
| 1 | 176.85605  | 81.108997 | zena |
| 1 | 166.318317 | 80.345984 | muz  |
| 1 | 176.366926 | 78.978618 | muz  |
| 1 | 183.174637 | 83.931089 | zena |
| 1 | 175.140283 | 78.038709 | zena |
| 1 | 171.394961 | 79.349009 | zena |
| 1 | 177.891937 | 79.780937 | muz  |
| 1 | 175.534463 | 77.005355 | muz  |
| 1 | 173.366405 | 81.492754 | zena |
| 1 | 172.014095 | 80.378996 | muz  |
| 1 | 169.891185 | 83.866506 | muz  |
| 1 | 173.296829 | 78.10819  | zena |
| 1 | 174.663267 | 73.984482 | muz  |
| 1 | 174.408474 | 78.822489 | muz  |
| 1 | 175.417675 | 82.982468 | muz  |
| 1 | 173.017727 | 78.123588 | zena |
| 1 | 171.943191 | 75.44868  | muz  |
| 1 | 176.393735 | 81.625615 | zena |
| 1 | 175.677804 | 85.963223 | zena |
| 1 | 171.215811 | 78.554    | zena |
| 1 | 180.513573 | 80.472253 | muz  |
| 1 | 173.093832 | 79.21439  | muz  |
| 1 | 174.982659 | 76.309319 | muz  |
| 1 | 178.824587 | 78.369406 | zena |
| 1 | 178.051883 | 83.617398 | muz  |
| 1 | 172.345713 | 80.765443 | muz  |
| 1 | 169.370081 | 72.770277 | zena |
| 1 | 173.324072 | 79.839554 | muz  |
| 1 | 178.724074 | 79.178879 | zena |
| 1 | 181.233648 | 77.616467 | zena |
| 1 | 172.689236 | 85.246896 | zena |
| 1 | 170.2428   | 71.343994 | zena |
| 1 | 174.146265 | 77.656967 | muz  |
| 1 | 174.436735 | 73.888108 | zena |
| 1 | 168.819491 | 75.402159 | zena |
| 1 | 177.431155 | 79.887776 | zena |
| 1 | 168.165619 | 75.936822 | zena |
| 1 | 181.329986 | 82.002792 | zena |
| 1 | 168.757149 | 79.472541 | muz  |

|   |            |           |      |
|---|------------|-----------|------|
| 1 | 178.961439 | 83.773374 | zena |
| 1 | 176.945653 | 85.663085 | muz  |
| 1 | 176.502713 | 77.840744 | muz  |
| 1 | 176.946508 | 75.891467 | zena |
| 1 | 175.617477 | 79.565355 | zena |
| 1 | 172.188832 | 91.338823 | muz  |
| 1 | 187.32804  | 79.521104 | zena |
| 1 | 172.516587 | 76.746131 | zena |
| 1 | 177.838765 | 78.055387 | muz  |
| 1 | 172.611999 | 76.873401 | muz  |
| 1 | 176.761526 | 78.644453 | muz  |
| 1 | 176.068434 | 78.797499 | muz  |
| 1 | 170.488841 | 79.888078 | muz  |
| 1 | 171.723771 | 82.710343 | zena |
| 1 | 169.678884 | 82.367331 | muz  |
| 1 | 178.508567 | 82.195032 | zena |
| 1 | 167.232025 | 77.317789 | muz  |
| 1 | 174.761845 | 76.911448 | muz  |
| 1 | 177.837972 | 83.995336 | zena |
| 1 | 177.418149 | 89.702038 | zena |
| 1 | 175.205485 | 73.087175 | zena |
| 1 | 173.30732  | 82.668015 | zena |
| 1 | 168.870018 | 77.852415 | zena |
| 1 | 177.389386 | 78.948043 | muz  |
| 1 | 180.049804 | 86.223514 | zena |
| 1 | 176.28817  | 86.840863 | zena |
| 1 | 171.444383 | 78.445388 | zena |
| 1 | 175.217377 | 84.157835 | zena |
| 1 | 175.60792  | 87.661982 | zena |
| 1 | 180.449154 | 84.731929 | zena |
| 1 | 174.279451 | 78.027616 | zena |
| 1 | 176.169024 | 78.13075  | zena |
| 1 | 174.150248 | 74.366038 | zena |
| 1 | 176.626682 | 77.606804 | muz  |
| 1 | 175.430121 | 80.298224 | muz  |
| 1 | 170.880137 | 70.363499 | muz  |
| 1 | 179.278473 | 71.785183 | zena |
| 1 | 170.778401 | 84.701454 | zena |
| 1 | 180.055429 | 80.923461 | muz  |
| 1 | 178.091239 | 85.590699 | zena |
| 1 | 172.372041 | 89.076801 | muz  |
| 1 | 177.900593 | 77.379803 | zena |
| 1 | 175.076973 | 83.408157 | muz  |
| 1 | 181.235371 | 75.976066 | zena |
| 1 | 179.919714 | 76.40477  | zena |
| 1 | 174.836885 | 81.330935 | muz  |
| 1 | 178.523867 | 81.885113 | zena |
| 1 | 178.839889 | 77.728872 | zena |
| 1 | 177.326315 | 85.072782 | muz  |
| 1 | 174.130353 | 80.415546 | zena |

|   |            |           |      |
|---|------------|-----------|------|
| 1 | 175.460926 | 83.000098 | muz  |
| 1 | 179.161478 | 89.293265 | zena |
| 1 | 175.133978 | 78.340264 | zena |
| 1 | 179.892386 | 80.117028 | muz  |
| 1 | 177.043155 | 80.494597 | muz  |
| 1 | 169.368307 | 84.08101  | muz  |
| 1 | 179.248412 | 77.639148 | zena |
| 1 | 184.6849   | 85.282803 | muz  |
| 1 | 179.199308 | 85.261616 | zena |
| 1 | 180.733771 | 75.161762 | muz  |
| 1 | 180.279479 | 84.117917 | zena |
| 1 | 176.929814 | 66.543426 | zena |
| 1 | 178.262583 | 81.824906 | zena |
| 1 | 174.257325 | 86.076332 | muz  |
| 1 | 176.452027 | 78.920285 | muz  |
| 1 | 174.763332 | 85.907421 | muz  |
| 1 | 172.42154  | 80.297312 | muz  |
| 1 | 173.27511  | 82.93675  | zena |
| 1 | 178.408296 | 83.660237 | zena |
| 1 | 177.06358  | 86.43435  | zena |
| 1 | 170.886381 | 87.530921 | muz  |
| 1 | 177.178647 | 75.62697  | muz  |
| 1 | 171.920406 | 87.778556 | zena |
| 1 | 176.766694 | 83.727712 | muz  |
| 1 | 175.00229  | 78.408053 | zena |
| 1 | 178.603287 | 78.705687 | muz  |
| 1 | 173.603778 | 80.351541 | muz  |
| 1 | 174.626241 | 78.899978 | zena |
| 1 | 175.069195 | 83.027724 | muz  |
| 1 | 185.558613 | 81.902588 | muz  |
| 1 | 177.463124 | 79.166208 | zena |
| 1 | 174.799111 | 84.194042 | zena |
| 1 | 184.305343 | 86.435103 | zena |
| 1 | 184.074825 | 78.982397 | zena |
| 1 | 176.437023 | 84.34269  | muz  |
| 1 | 179.389786 | 87.472668 | muz  |
| 1 | 180.450593 | 84.132915 | zena |
| 1 | 184.532658 | 83.277517 | muz  |
| 1 | 174.252303 | 82.279433 | muz  |
| 1 | 179.328743 | 95.422996 | zena |
| 1 | 174.852915 | 88.416335 | muz  |
| 1 | 178.49244  | 82.275595 | zena |
| 1 | 179.93966  | 80.636238 | muz  |
| 1 | 174.49205  | 82.83468  | zena |
| 1 | 178.52444  | 78.339857 | muz  |
| 1 | 175.226012 | 86.544929 | zena |
| 1 | 177.752404 | 78.445226 | zena |
| 1 | 177.57182  | 89.892147 | zena |
| 1 | 175.880003 | 77.397325 | zena |
| 1 | 176.808306 | 79.722384 | muz  |

|   |            |           |      |
|---|------------|-----------|------|
| 1 | 174.370646 | 76.106379 | zena |
| 1 | 181.751741 | 85.24321  | zena |
| 1 | 173.720512 | 79.830091 | zena |
| 1 | 176.847755 | 82.932948 | zena |
| 1 | 181.993981 | 78.021911 | zena |
| 1 | 184.115911 | 78.272727 | muz  |
| 1 | 183.179302 | 86.554038 | muz  |
| 1 | 178.72653  | 86.626152 | muz  |
| 1 | 177.340205 | 77.400722 | muz  |
| 1 | 176.971392 | 81.335609 | muz  |
| 1 | 176.594047 | 82.231075 | muz  |
| 1 | 184.547492 | 87.045872 | muz  |
| 1 | 177.031482 | 87.411425 | zena |
| 1 | 178.485657 | 75.990614 | muz  |
| 1 | 185.111622 | 85.419905 | zena |
| 1 | 176.936008 | 90.940483 | zena |
| 1 | 175.528046 | 73.941865 | muz  |
| 1 | 173.296533 | 75.637341 | muz  |
| 1 | 178.192891 | 79.025518 | zena |
| 1 | 173.640843 | 90.558165 | muz  |
| 1 | 178.277035 | 77.643288 | zena |
| 1 | 174.374871 | 80.043913 | muz  |
| 1 | 181.456829 | 82.877562 | zena |
| 1 | 180.346058 | 86.211729 | muz  |
| 1 | 180.215177 | 78.304868 | zena |
| 1 | 182.657898 | 85.139737 | muz  |
| 1 | 178.878393 | 87.800637 | muz  |
| 1 | 178.986295 | 80.471242 | muz  |
| 1 | 179.088921 | 88.999367 | zena |
| 1 | 184.250446 | 82.430277 | zena |
| 1 | 181.809226 | 81.479899 | muz  |
| 1 | 180.717603 | 79.137631 | muz  |
| 1 | 182.072086 | 84.186102 | zena |
| 1 | 170.257011 | 81.635659 | zena |
| 1 | 176.688662 | 78.840263 | zena |
| 1 | 167.591279 | 84.659262 | muz  |
| 1 | 180.359726 | 89.189078 | zena |
| 1 | 178.898841 | 85.977707 | zena |
| 1 | 182.916554 | 82.017542 | zena |
| 1 | 183.467155 | 78.930185 | zena |
| 1 | 175.788999 | 79.434406 | zena |
| 1 | 174.619579 | 86.733838 | zena |
| 1 | 174.963432 | 90.271586 | zena |
| 1 | 175.901139 | 78.516356 | zena |
| 1 | 182.79545  | 84.455681 | zena |
| 1 | 179.744618 | 80.041107 | muz  |
| 1 | 176.727977 | 81.634656 | muz  |
| 1 | 182.998734 | 83.920996 | muz  |
| 1 | 172.238868 | 84.024731 | zena |
| 1 | 185.29968  | 86.534311 | zena |

|   |            |           |      |
|---|------------|-----------|------|
| 1 | 176.521315 | 77.714729 | zena |
| 1 | 175.928692 | 82.662849 | zena |
| 1 | 182.956667 | 83.487483 | zena |
| 1 | 171.790551 | 78.613487 | muz  |
| 1 | 179.603092 | 91.977643 | zena |
| 1 | 179.609172 | 84.257254 | zena |
| 1 | 178.991796 | 81.930339 | zena |
| 1 | 175.086873 | 87.741017 | muz  |
| 1 | 179.988815 | 84.538941 | muz  |
| 1 | 175.742987 | 84.888614 | zena |
| 1 | 181.069038 | 77.596793 | zena |
| 1 | 181.247249 | 87.402521 | zena |
| 1 | 178.748251 | 82.006778 | muz  |
| 1 | 179.845138 | 84.926704 | zena |
| 1 | 177.330606 | 85.099794 | zena |
| 1 | 183.495566 | 86.245207 | muz  |
| 1 | 178.41318  | 82.36385  | zena |
| 1 | 188.683974 | 78.897482 | muz  |
| 1 | 181.668741 | 78.205979 | zena |
| 1 | 174.190389 | 83.202288 | zena |
| 1 | 170.837086 | 78.405008 | muz  |
| 1 | 176.920419 | 81.175143 | muz  |
| 1 | 180.275993 | 81.241106 | muz  |
| 1 | 180.435984 | 84.573092 | muz  |
| 1 | 180.310465 | 77.477979 | zena |
| 1 | 178.866108 | 84.691722 | zena |
| 1 | 177.748978 | 85.035468 | muz  |
| 1 | 175.498438 | 85.762789 | zena |
| 1 | 189.583794 | 80.58343  | zena |
| 1 | 179.908305 | 80.307126 | zena |
| 1 | 177.201771 | 85.200341 | zena |
| 1 | 184.520709 | 82.982552 | zena |
| 1 | 177.17538  | 87.394684 | muz  |
| 1 | 188.194838 | 92.079639 | zena |
| 1 | 177.782897 | 85.598175 | muz  |
| 1 | 177.058123 | 91.374455 | muz  |
| 1 | 172.639978 | 85.760867 | muz  |
| 1 | 176.842107 | 84.292468 | zena |
| 1 | 179.116026 | 79.937307 | zena |
| 1 | 181.463559 | 87.037871 | zena |
| 1 | 179.231718 | 82.245491 | zena |
| 1 | 177.806804 | 77.288037 | zena |
| 1 | 183.834029 | 84.768686 | zena |
| 1 | 177.110049 | 85.708001 | muz  |
| 1 | 179.003774 | 79.014299 | zena |
| 1 | 187.819797 | 90.956358 | muz  |
| 1 | 186.294354 | 84.051488 | muz  |
| 1 | 186.753714 | 83.394208 | zena |
| 1 | 186.270593 | 89.163569 | muz  |
| 1 | 175.442643 | 83.364624 | zena |

|   |            |           |      |
|---|------------|-----------|------|
| 1 | 173.491479 | 87.410225 | muz  |
| 1 | 182.388142 | 90.521256 | zena |
| 1 | 178.848562 | 77.81114  | zena |
| 1 | 172.335402 | 83.558801 | muz  |
| 1 | 186.79328  | 92.624035 | muz  |
| 1 | 181.905578 | 76.916889 | zena |
| 1 | 176.059737 | 89.549197 | muz  |
| 1 | 176.156621 | 78.997299 | zena |
| 1 | 178.032176 | 85.16935  | muz  |
| 1 | 177.960585 | 87.833708 | muz  |
| 1 | 176.864519 | 86.856642 | muz  |
| 1 | 177.630964 | 82.140887 | muz  |
| 1 | 185.234724 | 84.171662 | muz  |
| 1 | 179.614063 | 84.392851 | muz  |
| 1 | 178.441397 | 89.037702 | muz  |
| 1 | 175.958165 | 83.371964 | muz  |
| 1 | 186.24934  | 90.322295 | zena |
| 1 | 173.361062 | 91.742782 | zena |
| 1 | 183.43216  | 82.594978 | muz  |
| 1 | 177.475447 | 83.342851 | muz  |
| 1 | 176.219331 | 86.512694 | zena |
| 1 | 182.184706 | 84.34148  | muz  |
| 1 | 180.393748 | 82.386331 | muz  |
| 1 | 188.926977 | 81.681281 | zena |
| 1 | 185.165921 | 86.78595  | zena |
| 1 | 177.402797 | 95.74141  | zena |
| 1 | 185.279483 | 82.554114 | muz  |
| 1 | 180.676255 | 85.697964 | muz  |
| 1 | 178.878559 | 82.47738  | zena |
| 1 | 182.590614 | 95.69244  | muz  |
| 1 | 174.432121 | 89.227236 | zena |
| 1 | 176.909532 | 83.425781 | muz  |
| 1 | 182.095278 | 85.744606 | zena |
| 1 | 183.509113 | 89.004396 | zena |
| 1 | 175.152803 | 90.901106 | muz  |
| 1 | 187.077581 | 88.756147 | muz  |
| 1 | 177.409759 | 90.766906 | zena |
| 1 | 171.714885 | 90.408492 | muz  |
| 1 | 175.086846 | 87.967254 | zena |
| 1 | 173.2745   | 79.665573 | zena |
| 1 | 171.736488 | 85.267114 | muz  |
| 1 | 178.348376 | 86.95156  | muz  |
| 1 | 177.756734 | 88.579948 | zena |
| 1 | 178.627675 | 81.156948 | muz  |
| 1 | 177.965242 | 81.562001 | muz  |
| 1 | 184.414221 | 89.37411  | muz  |
| 1 | 186.03814  | 92.527551 | muz  |
| 1 | 180.754826 | 87.36194  | zena |
| 1 | 182.291606 | 80.933306 | muz  |
| 1 | 186.427388 | 95.156818 | muz  |



|   |            |           |      |
|---|------------|-----------|------|
| 1 | 180.968814 | 84.826723 | muz  |
| 1 | 182.165052 | 89.728054 | zena |
| 1 | 183.023624 | 89.133506 | muz  |
| 1 | 177.664884 | 81.587328 | zena |
| 1 | 183.440023 | 88.978557 | zena |
| 1 | 180.56988  | 82.746827 | muz  |
| 1 | 181.97685  | 82.582313 | zena |
| 1 | 181.924777 | 94.07612  | muz  |
| 1 | 178.784388 | 80.81471  | zena |
| 1 | 177.779332 | 89.124768 | muz  |
| 1 | 181.289163 | 80.935241 | zena |
| 1 | 177.299033 | 87.284446 | muz  |
| 1 | 182.53355  | 86.320905 | zena |
| 1 | 186.737073 | 84.65893  | muz  |
| 1 | 179.490533 | 85.215209 | zena |
| 1 | 185.521163 | 85.056416 | zena |
| 1 | 181.206608 | 77.374114 | muz  |
| 1 | 180.253322 | 89.208202 | zena |
| 1 | 182.459897 | 86.186506 | muz  |
| 1 | 177.333284 | 80.595119 | muz  |
| 1 | 178.727328 | 78.119905 | muz  |
| 1 | 184.582466 | 86.508467 | muz  |
| 1 | 184.566341 | 90.836548 | zena |
| 1 | 183.853863 | 81.629322 | muz  |
| 1 | 182.052259 | 79.688344 | zena |
| 1 | 181.48907  | 83.871813 | zena |
| 1 | 189.741116 | 90.449092 | muz  |
| 1 | 173.783963 | 88.222081 | muz  |
| 1 | 178.038538 | 94.263258 | zena |
| 1 | 184.757314 | 87.766405 | muz  |
| 1 | 177.938164 | 86.088674 | muz  |
| 1 | 183.61104  | 90.192126 | muz  |
| 1 | 174.525247 | 83.151525 | muz  |
| 1 | 187.903623 | 90.2211   | muz  |
| 1 | 182.088796 | 87.395554 | muz  |
| 1 | 177.572943 | 87.431098 | muz  |
| 1 | 185.845    | 86.535441 | zena |
| 1 | 185.389702 | 90.711879 | zena |
| 1 | 182.723862 | 85.568339 | zena |
| 1 | 182.051138 | 85.433502 | muz  |
| 1 | 176.140075 | 87.986271 | muz  |
| 1 | 183.657758 | 79.509785 | muz  |
| 1 | 186.168762 | 96.654099 | muz  |
| 1 | 180.262028 | 86.658227 | zena |
| 1 | 190.808308 | 85.376754 | muz  |
| 1 | 178.404749 | 86.632934 | zena |
| 1 | 186.36433  | 89.717313 | muz  |
| 1 | 187.669587 | 89.480478 | muz  |
| 1 | 188.027541 | 85.871455 | muz  |
| 1 | 177.42869  | 88.305449 | muz  |

|   |            |           |      |
|---|------------|-----------|------|
| 1 | 185.064765 | 96.440497 | zena |
| 1 | 179.998402 | 90.77453  | muz  |
| 1 | 177.114373 | 86.303172 | muz  |
| 1 | 171.254626 | 90.304105 | muz  |
| 1 | 183.660753 | 88.12788  | zena |
| 1 | 182.176109 | 91.917812 | zena |
| 1 | 185.073271 | 90.851127 | muz  |
| 1 | 178.644007 | 95.096367 | muz  |
| 1 | 181.335379 | 86.357425 | muz  |
| 1 | 189.540206 | 85.514835 | muz  |
| 1 | 188.500788 | 92.744377 | muz  |
| 1 | 187.346223 | 86.257699 | zena |
| 1 | 180.973569 | 86.785347 | zena |
| 1 | 181.032618 | 91.048181 | zena |
| 1 | 183.320688 | 86.623725 | muz  |
| 1 | 181.97243  | 95.667809 | muz  |
| 1 | 182.863871 | 88.943344 | zena |
| 1 | 178.441599 | 86.824899 | zena |
| 1 | 179.458144 | 92.167137 | zena |
| 1 | 181.391172 | 84.521656 | zena |
| 1 | 182.699144 | 89.146743 | zena |
| 1 | 183.777388 | 88.576188 | zena |
| 1 | 176.794736 | 85.430152 | zena |
| 1 | 191.729849 | 91.523387 | muz  |
| 1 | 181.082033 | 92.182784 | zena |
| 1 | 187.457797 | 80.415262 | zena |
| 1 | 182.71863  | 91.919668 | muz  |
| 1 | 186.915898 | 79.600839 | muz  |
| 1 | 189.842197 | 86.043074 | zena |
| 1 | 180.050704 | 89.756644 | zena |
| 1 | 179.397373 | 88.434216 | zena |
| 1 | 184.916883 | 89.167114 | muz  |
| 1 | 186.941693 | 91.045534 | zena |
| 1 | 182.985657 | 88.914467 | zena |
| 1 | 188.191241 | 88.883483 | muz  |
| 1 | 184.567733 | 93.410277 | zena |
| 1 | 184.85059  | 92.551366 | zena |
| 1 | 185.877828 | 87.021141 | muz  |
| 1 | 185.359736 | 94.581834 | zena |
| 1 | 181.717069 | 92.492799 | muz  |
| 1 | 188.390377 | 90.265701 | muz  |
| 1 | 180.392195 | 88.698008 | muz  |
| 1 | 185.635584 | 93.851762 | muz  |
| 1 | 186.173045 | 91.259652 | zena |
| 1 | 186.446303 | 82.551249 | muz  |
| 1 | 181.677902 | 86.405006 | muz  |
| 1 | 179.155643 | 88.861846 | zena |
| 1 | 185.345214 | 86.592252 | zena |
| 1 | 189.103901 | 91.265495 | zena |
| 1 | 185.112938 | 93.74742  | zena |

|   |            |            |      |
|---|------------|------------|------|
| 1 | 187.188191 | 93.824395  | muz  |
| 1 | 181.892231 | 84.52578   | zena |
| 1 | 186.647488 | 77.407736  | zena |
| 1 | 184.546264 | 80.079791  | muz  |
| 1 | 178.334449 | 88.211487  | muz  |
| 1 | 190.183358 | 89.57582   | zena |
| 1 | 176.739382 | 88.468106  | muz  |
| 1 | 181.95741  | 86.519779  | zena |
| 1 | 186.014852 | 92.777614  | zena |
| 1 | 186.804407 | 85.361347  | muz  |
| 1 | 181.302151 | 87.401957  | muz  |
| 1 | 180.679681 | 93.553384  | zena |
| 1 | 189.161322 | 92.871881  | muz  |
| 1 | 187.692479 | 84.227525  | muz  |
| 1 | 181.18951  | 93.567345  | muz  |
| 1 | 183.861542 | 84.117713  | muz  |
| 1 | 183.487339 | 88.18056   | zena |
| 1 | 181.084654 | 88.406735  | muz  |
| 1 | 186.827013 | 88.197765  | muz  |
| 1 | 189.125488 | 92.294434  | zena |
| 1 | 181.369237 | 83.087192  | zena |
| 1 | 182.432412 | 87.366476  | zena |
| 1 | 184.798708 | 88.897069  | muz  |
| 1 | 178.463022 | 86.612011  | muz  |
| 1 | 184.365759 | 87.524932  | muz  |
| 1 | 179.97136  | 100.008027 | muz  |
| 1 | 189.79715  | 93.277625  | zena |
| 1 | 180.544828 | 87.52134   | muz  |
| 1 | 181.001708 | 91.607784  | muz  |
| 1 | 188.09448  | 90.655979  | zena |
| 1 | 184.579406 | 90.111774  | zena |
| 1 | 187.219974 | 89.385145  | muz  |
| 1 | 182.271399 | 90.145189  | muz  |
| 1 | 190.737367 | 95.920658  | zena |
| 1 | 188.135175 | 95.087674  | muz  |
| 1 | 185.155468 | 93.729787  | zena |
| 1 | 180.626778 | 101.79351  | zena |
| 1 | 186.749228 | 93.472989  | muz  |
| 1 | 188.511761 | 90.07669   | muz  |
| 1 | 189.241794 | 87.22366   | muz  |
| 1 | 180.641617 | 86.572862  | zena |
| 1 | 189.057815 | 89.376884  | zena |
| 1 | 180.461264 | 89.540293  | muz  |
| 1 | 186.711366 | 93.734139  | zena |
| 1 | 178.873004 | 87.35317   | muz  |
| 1 | 179.374591 | 91.089504  | zena |
| 1 | 189.728569 | 89.418621  | zena |
| 1 | 189.576775 | 90.656902  | zena |
| 1 | 179.930192 | 83.123008  | muz  |
| 1 | 187.30774  | 89.068334  | muz  |

|   |            |            |      |
|---|------------|------------|------|
| 1 | 188.052266 | 88.036521  | muz  |
| 1 | 187.584465 | 86.060253  | muz  |
| 1 | 185.702054 | 89.488847  | muz  |
| 1 | 179.681863 | 95.903309  | muz  |
| 1 | 186.633859 | 89.273143  | zena |
| 1 | 188.84459  | 93.136058  | zena |
| 1 | 179.340507 | 91.442806  | zena |
| 1 | 179.466766 | 97.318374  | muz  |
| 1 | 183.792438 | 90.254637  | muz  |
| 1 | 189.943747 | 92.327967  | muz  |
| 1 | 182.274023 | 92.521801  | muz  |
| 1 | 187.244771 | 94.012688  | muz  |
| 1 | 182.787306 | 90.992458  | zena |
| 1 | 185.808806 | 93.953216  | zena |
| 1 | 191.398806 | 96.41743   | zena |
| 1 | 187.302201 | 89.715907  | muz  |
| 1 | 191.138793 | 85.5634    | muz  |
| 1 | 189.934324 | 95.741956  | zena |
| 1 | 185.373859 | 91.086752  | muz  |
| 1 | 190.428744 | 85.837849  | zena |
| 1 | 187.322201 | 92.51083   | zena |
| 1 | 187.477067 | 89.433264  | zena |
| 1 | 192.586065 | 101.307918 | muz  |
| 1 | 179.302877 | 95.310084  | muz  |
| 1 | 178.979015 | 92.169701  | muz  |
| 1 | 187.24544  | 92.910228  | muz  |
| 1 | 189.62797  | 89.517947  | muz  |
| 1 | 186.360224 | 90.299944  | muz  |
| 1 | 178.895146 | 89.882831  | zena |
| 1 | 180.155774 | 87.656152  | muz  |
| 1 | 182.421248 | 92.850138  | zena |
| 1 | 190.268409 | 89.720796  | zena |
| 1 | 186.090704 | 80.236456  | zena |
| 1 | 181.982303 | 88.260971  | zena |
| 1 | 189.641108 | 95.632994  | zena |
| 1 | 183.248952 | 88.062526  | zena |
| 1 | 191.721436 | 84.855731  | zena |
| 1 | 184.083254 | 91.983641  | zena |
| 1 | 193.372646 | 90.185466  | muz  |
| 1 | 187.141011 | 98.174736  | zena |
| 1 | 184.608701 | 88.439095  | zena |
| 1 | 187.850854 | 102.75099  | muz  |
| 1 | 190.974418 | 97.656137  | muz  |
| 1 | 185.960992 | 95.571384  | zena |
| 1 | 189.142318 | 87.092875  | muz  |
| 1 | 188.495267 | 96.052216  | zena |
| 1 | 189.919318 | 89.873668  | zena |
| 1 | 188.884308 | 96.54438   | zena |
| 1 | 185.120551 | 94.336532  | muz  |
| 1 | 183.029206 | 96.028587  | zena |

|   |            |            |      |
|---|------------|------------|------|
| 1 | 184.305639 | 89.044196  | muz  |
| 1 | 190.961999 | 83.683456  | zena |
| 1 | 192.757873 | 90.889015  | muz  |
| 1 | 186.390514 | 89.674794  | muz  |
| 1 | 191.922032 | 91.069686  | zena |
| 1 | 186.588421 | 86.478231  | muz  |
| 1 | 185.769646 | 89.89897   | zena |
| 1 | 186.439191 | 91.876694  | zena |
| 1 | 185.143975 | 91.540618  | muz  |
| 1 | 187.564604 | 87.273459  | muz  |
| 1 | 187.485714 | 93.470643  | muz  |
| 1 | 184.968329 | 94.173541  | muz  |
| 1 | 186.351088 | 94.077612  | zena |
| 1 | 188.218553 | 92.256599  | zena |
| 1 | 187.70619  | 91.603059  | zena |
| 1 | 187.790532 | 93.652025  | zena |
| 1 | 187.386943 | 83.398453  | zena |
| 1 | 189.510886 | 95.985705  | zena |
| 1 | 189.452983 | 98.503568  | zena |
| 1 | 184.715721 | 92.775475  | zena |
| 1 | 184.782896 | 92.344593  | muz  |
| 1 | 187.906842 | 96.940206  | zena |
| 1 | 182.580837 | 94.857222  | muz  |
| 1 | 191.798766 | 94.078026  | zena |
| 1 | 194.709155 | 92.881476  | muz  |
| 1 | 192.548403 | 94.764367  | zena |
| 1 | 191.381921 | 94.316745  | muz  |
| 1 | 190.954982 | 100.238188 | zena |
| 1 | 187.219528 | 90.11382   | zena |
| 1 | 188.11639  | 90.343661  | zena |
| 1 | 182.704842 | 92.591714  | zena |
| 1 | 187.385861 | 89.469184  | zena |
| 1 | 182.646784 | 86.092262  | zena |
| 1 | 186.800492 | 88.501468  | zena |
| 1 | 190.085682 | 89.366761  | zena |
| 1 | 192.394571 | 84.604079  | muz  |
| 1 | 186.698233 | 97.438763  | muz  |
| 1 | 193.536005 | 89.84546   | zena |
| 1 | 184.453577 | 90.884422  | zena |
| 1 | 190.45576  | 84.696538  | zena |
| 1 | 194.679899 | 92.386175  | zena |
| 1 | 185.077204 | 88.221203  | muz  |
| 1 | 185.92509  | 101.204385 | muz  |
| 1 | 186.715172 | 100.239011 | zena |
| 1 | 184.688195 | 94.16169   | muz  |
| 1 | 191.016523 | 92.578919  | muz  |
| 1 | 188.265674 | 99.037141  | zena |
| 1 | 187.236231 | 95.016206  | zena |
| 1 | 182.515544 | 85.739769  | muz  |
| 1 | 196.437962 | 91.436253  | zena |

|   |            |            |      |
|---|------------|------------|------|
| 1 | 187.516824 | 92.167996  | muz  |
| 1 | 184.723083 | 95.921676  | muz  |
| 1 | 189.444193 | 97.644086  | muz  |
| 1 | 195.116352 | 88.502178  | muz  |
| 1 | 194.042075 | 80.95354   | muz  |
| 1 | 187.046215 | 97.316123  | zena |
| 1 | 189.224259 | 90.690863  | muz  |
| 1 | 187.642775 | 92.454219  | muz  |
| 1 | 192.428786 | 92.256594  | zena |
| 1 | 184.412714 | 94.693326  | muz  |
| 1 | 183.229143 | 91.602741  | zena |
| 1 | 188.647212 | 85.78282   | zena |
| 1 | 187.017552 | 91.903535  | zena |
| 1 | 192.195569 | 89.97942   | zena |
| 1 | 190.693834 | 93.162688  | zena |
| 1 | 191.85615  | 89.580284  | muz  |
| 1 | 183.314849 | 92.468211  | zena |
| 1 | 187.558474 | 96.514021  | zena |
| 1 | 187.983908 | 98.414078  | muz  |
| 1 | 190.337449 | 84.183688  | zena |
| 1 | 191.349889 | 98.610197  | zena |
| 1 | 187.974954 | 97.091361  | muz  |
| 1 | 188.341144 | 99.656562  | muz  |
| 1 | 185.236016 | 101.107979 | zena |
| 1 | 194.320731 | 87.734919  | zena |
| 1 | 196.739205 | 89.999411  | muz  |
| 1 | 191.720726 | 89.953217  | muz  |
| 1 | 187.511562 | 92.956419  | muz  |
| 1 | 193.061031 | 89.946605  | zena |
| 1 | 190.332787 | 94.294804  | muz  |
| 1 | 189.000951 | 97.53708   | zena |
| 1 | 188.169077 | 93.425027  | zena |
| 1 | 184.37135  | 97.081641  | zena |
| 1 | 188.964907 | 95.127674  | muz  |
| 1 | 189.025107 | 95.160725  | zena |
| 1 | 201.557498 | 95.581152  | muz  |
| 1 | 193.477033 | 93.780871  | muz  |
| 1 | 185.240822 | 94.130576  | zena |
| 1 | 191.867114 | 93.996553  | muz  |
| 1 | 192.694691 | 102.452003 | muz  |
| 1 | 190.007543 | 93.641073  | zena |
| 1 | 194.91278  | 96.067814  | zena |
| 1 | 193.536046 | 91.526529  | muz  |
| 1 | 199.947779 | 86.265371  | zena |
| 1 | 193.673839 | 96.157763  | zena |
| 1 | 192.923902 | 97.636947  | muz  |
| 1 | 191.941465 | 96.162551  | muz  |
| 1 | 194.420048 | 96.494385  | zena |
| 1 | 195.209444 | 90.702532  | zena |
| 1 | 198.701553 | 87.812271  | muz  |

|   |            |            |      |
|---|------------|------------|------|
| 1 | 192.771507 | 89.455446  | zena |
| 1 | 190.835815 | 95.619492  | muz  |
| 1 | 195.187957 | 96.329721  | zena |
| 1 | 191.328411 | 91.153682  | muz  |
| 1 | 187.887943 | 89.647131  | zena |
| 1 | 190.493673 | 91.52477   | muz  |
| 1 | 188.663678 | 94.994087  | muz  |
| 1 | 193.489971 | 98.093731  | muz  |
| 1 | 192.733876 | 90.743918  | muz  |
| 1 | 187.297422 | 86.398844  | muz  |
| 1 | 195.570395 | 92.21911   | muz  |
| 1 | 187.239614 | 87.145389  | muz  |
| 1 | 188.974012 | 99.338002  | zena |
| 1 | 188.752772 | 98.343297  | zena |
| 1 | 188.022271 | 92.088797  | muz  |
| 1 | 197.762868 | 97.744517  | zena |
| 1 | 194.547359 | 101.685617 | zena |
| 1 | 194.614684 | 100.201358 | muz  |
| 1 | 194.240118 | 101.995964 | muz  |
| 1 | 192.157407 | 93.73144   | zena |
| 1 | 193.42064  | 92.944077  | muz  |
| 1 | 190.148274 | 95.358144  | zena |
| 1 | 196.596396 | 99.501566  | muz  |
| 1 | 196.939084 | 92.551935  | muz  |
| 1 | 186.033788 | 102.75999  | zena |
| 1 | 193.896256 | 98.850231  | muz  |
| 1 | 191.779166 | 93.870352  | zena |
| 1 | 184.90721  | 99.568823  | muz  |
| 1 | 185.714219 | 96.255916  | muz  |
| 1 | 184.396488 | 95.651202  | zena |
| 1 | 188.231996 | 98.348749  | muz  |
| 1 | 196.297863 | 97.967162  | zena |
| 1 | 194.672814 | 94.803662  | zena |
| 1 | 195.42262  | 98.222943  | muz  |
| 1 | 194.443299 | 97.597507  | zena |
| 1 | 195.183246 | 93.934089  | zena |
| 1 | 191.584984 | 100.5212   | muz  |
| 1 | 195.37016  | 95.42677   | zena |
| 1 | 195.64586  | 99.350258  | muz  |
| 1 | 196.893769 | 96.680681  | muz  |
| 1 | 192.978417 | 97.043456  | zena |
| 1 | 191.788402 | 97.356541  | muz  |
| 1 | 199.937434 | 98.309386  | muz  |
| 1 | 194.327734 | 101.890972 | muz  |
| 1 | 195.414589 | 95.037174  | muz  |
| 1 | 198.031983 | 90.916718  | zena |
| 1 | 192.627916 | 100.307287 | muz  |
| 1 | 195.172809 | 90.493994  | muz  |
| 1 | 192.016317 | 94.957366  | zena |
| 1 | 191.135271 | 101.175072 | zena |

|   |            |            |      |
|---|------------|------------|------|
| 1 | 194.209036 | 99.228931  | muz  |
| 1 | 189.283685 | 100.999312 | muz  |
| 1 | 199.659938 | 95.055419  | zena |
| 1 | 187.563522 | 104.789713 | muz  |
| 1 | 194.405578 | 97.349346  | zena |
| 1 | 197.426264 | 98.425042  | zena |
| 1 | 190.658314 | 97.830369  | muz  |
| 1 | 198.944511 | 94.70223   | zena |
| 1 | 202.389954 | 96.86128   | zena |
| 1 | 197.435887 | 101.379076 | zena |
| 1 | 186.739956 | 97.768396  | muz  |
| 1 | 191.853663 | 93.690604  | muz  |
| 1 | 193.518097 | 91.415785  | muz  |
| 1 | 195.259957 | 100.082292 | muz  |
| 1 | 194.02002  | 99.467373  | muz  |
| 1 | 195.017736 | 98.77352   | zena |
| 1 | 201.406058 | 95.380645  | zena |
| 1 | 196.760987 | 106.255523 | zena |
| 1 | 200.084344 | 100.285218 | muz  |
| 1 | 191.821858 | 94.259029  | muz  |
| 1 | 189.366604 | 95.703184  | zena |
| 1 | 193.840172 | 97.425521  | zena |
| 1 | 193.1246   | 98.731328  | zena |
| 1 | 201.870082 | 101.83145  | muz  |
| 1 | 192.96582  | 96.926527  | muz  |
| 1 | 196.725435 | 99.48951   | zena |
| 1 | 202.602735 | 92.846993  | muz  |
| 1 | 204.287074 | 92.885105  | zena |
| 1 | 190.621934 | 99.470606  | muz  |
| 1 | 193.024837 | 102.782813 | muz  |
| 1 | 196.995864 | 96.446609  | muz  |
| 1 | 198.987048 | 93.570469  | muz  |
| 1 | 191.834527 | 98.101471  | zena |
| 1 | 200.628513 | 97.515616  | zena |
| 1 | 192.040891 | 90.719953  | muz  |
| 1 | 195.066234 | 100.761243 | zena |
| 1 | 195.964679 | 98.246472  | muz  |
| 1 | 191.736138 | 100.516525 | muz  |
| 1 | 190.800013 | 97.273922  | muz  |
| 1 | 193.529889 | 93.428633  | zena |
| 1 | 189.913256 | 102.986122 | muz  |
| 1 | 193.763574 | 97.325777  | muz  |
| 1 | 200.041316 | 104.177305 | zena |
| 1 | 203.539023 | 101.395752 | muz  |
| 1 | 197.124521 | 96.935499  | muz  |
| 1 | 199.24298  | 101.126883 | muz  |
| 1 | 197.889961 | 96.811971  | muz  |
| 1 | 205.09345  | 95.86657   | zena |
| 1 | 196.240824 | 100.168835 | zena |
| 1 | 196.106283 | 90.134152  | zena |



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|---|------------|------------|------|
| 1 | 203.908797 | 107.518507 | muz  |
| 1 | 197.898842 | 97.258979  | muz  |
| 1 | 196.111503 | 99.495117  | muz  |
| 1 | 194.228626 | 105.529751 | muz  |
| 1 | 201.580008 | 101.033091 | muz  |
| 1 | 203.599514 | 95.969934  | zena |
| 1 | 203.75823  | 103.516339 | zena |
| 1 | 194.319639 | 100.444875 | muz  |
| 1 | 196.439158 | 102.332077 | muz  |
| 1 | 200.491971 | 102.280304 | zena |
| 1 | 201.149244 | 101.212139 | zena |
| 1 | 191.151278 | 102.541879 | zena |
| 1 | 198.392257 | 102.52569  | zena |
| 1 | 197.643952 | 103.319834 | muz  |
| 1 | 194.410252 | 96.672282  | muz  |
| 1 | 203.279117 | 107.781405 | muz  |
| 1 | 192.658402 | 100.882688 | muz  |
| 1 | 196.786198 | 103.042656 | muz  |
| 1 | 206.777398 | 98.430399  | zena |
| 1 | 192.833225 | 95.918029  | zena |
| 1 | 196.959398 | 102.029492 | muz  |
| 1 | 197.081229 | 99.265006  | zena |
| 1 | 195.929791 | 100.416422 | muz  |
| 1 | 193.948411 | 99.257666  | muz  |
| 1 | 203.587836 | 101.159038 | zena |
| 1 | 194.771322 | 104.081754 | zena |
| 1 | 205.483296 | 111.814523 | zena |
| 1 | 201.35851  | 108.015727 | zena |
| 1 | 200.670473 | 100.471751 | zena |
| 1 | 197.790999 | 104.730205 | muz  |
| 1 | 203.41254  | 104.20705  | muz  |
| 1 | 197.575667 | 108.164112 | zena |
| 1 | 205.328682 | 103.705186 | muz  |
| 1 | 195.666128 | 100.820597 | muz  |
| 1 | 198.075298 | 102.692591 | zena |
| 1 | 207.918668 | 104.414242 | muz  |
| 1 | 201.635501 | 109.648944 | zena |
| 1 | 200.981188 | 102.727261 | muz  |
| 1 | 207.772712 | 105.278549 | muz  |
| 1 | 202.960285 | 105.256266 | zena |
| 1 | 201.783408 | 100.848946 | muz  |
| 1 | 207.57477  | 106.157598 | muz  |
| 1 | 203.358562 | 105.421808 | muz  |
| 1 | 201.614233 | 104.616473 | zena |
| 1 | 206.758007 | 106.777842 | muz  |
| 1 | 204.022529 | 107.831173 | muz  |
| 1 | 201.385158 | 109.170167 | zena |
| 1 | 206.925463 | 111.330499 | muz  |
| 1 | 208.980617 | 108.580933 | muz  |
| 1 | 206.517091 | 108.23728  | muz  |

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| 1 | 213.109727 | 117.916168 | zena |
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