

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

výška skupina 2

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

výška skupina 1

výška skupina 2

Liliefors p:

Shapiro-Wilks p:

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

Transformace:

5. Navrhnete 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, Leukocty, Tep1 a Tep2. Co usuzujete o jejich rozdělení?

r1

Leukocyty

Tep1

r1

Leukocyty

Tep1

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

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

Tep1 × Tep2:

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

p hodnota:

/ jsou v řádcích náhodně).☒

p hodnota:

Tep2

Tep2

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
195.897967	162.07217	195.897967	1
180.28806	161.740295	180.28806	1
183.304626	167.952531	183.304626	1
189.763971	163.535786	189.763971	1
199.492018	176.358536	199.492018	1
179.391082	167.918993	179.391082	1
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
166.038301	166.927303	166.038301	1
178.561862	148.567561	178.561862	1

173.710389	157.88796	173.710389	1
173.724362	152.697281	173.724362	1
188.789902	161.253647	188.789902	1
171.617096	155.567043	171.617096	1
178.851149	152.054813	178.851149	1
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
169.388994	162.308798	169.388994	1
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
191.677002	153.572737	191.677002	1
160.513076	166.678533	160.513076	1
174.826874	159.85273	174.826874	1
170.236029	163.443915	170.236029	1
178.995031	161.33233	178.995031	1
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
180.466423	152.324638	180.466423	1
169.702133	150.416791	169.702133	1
177.004079	157.393149	177.004079	1
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
162.188774	171.269276	162.188774	1
180.792966	161.185822	180.792966	1

190.062831	159.427098	190.062831	1
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
189.895439	148.064974	189.895439	1
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
178.646058	164.660296	178.646058	1
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
184.432115	156.726058	184.432115	1
181.927788	153.16093	181.927788	1
186.507412	154.302766	186.507412	1
178.310955	160.878947	178.310955	1
188.256393	148.993886	188.256393	1
193.214662	158.857311	193.214662	1
199.023082	147.42137	199.023082	1
166.894454	174.793659	166.894454	1
186.200366	169.944233	186.200366	1
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
177.618852	174.481066	177.618852	1
169.019079	168.155689	169.019079	1

180.748469	165.704442	180.748469	1
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
169.764319	145.60138	169.764319	1
170.786796	149.009279	170.786796	1
187.297717	158.269027	187.297717	1
195.963269	152.458493	195.963269	1
173.681456	177.27667	173.681456	1
171.675656	158.702401	171.675656	1
190.227927	155.167605	190.227927	1
182.229524	189.947842	182.229524	1
184.491267	165.69903	184.491267	1
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
181.217416	153.869028	181.217416	1
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
181.686726	146.925081	181.686726	1
175.603298	157.064037	175.603298	1

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
178.37687	154.769064	178.37687	1
163.505859	158.36059	163.505859	1
164.023043	159.035776	164.023043	1
171.873074	168.136499	171.873074	1
182.597358	178.335959	182.597358	1
173.878248	153.287952	173.878248	1
200.628704	161.384058	200.628704	1
177.830821	174.520447	177.830821	1
188.634493	151.387699	188.634493	1
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
180.99036	156.838039	180.99036	1
182.709874	148.088348	182.709874	1
188.954316	170.719077	188.954316	1
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
177.59209	164.418621	177.59209	1
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
170.414381	153.095048	170.414381	1
188.41992	164.01476	188.41992	1

178.258158	163.93859	178.258158	1
187.062113	162.46938	187.062113	1
172.44933	161.946489	172.44933	1
183.111336	169.868018	183.111336	1
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
177.646387	151.958998	177.646387	1
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
172.601067	162.3143	172.601067	1
177.00168	187.875649	177.00168	1
185.046741	190.381489	185.046741	1
162.784266	173.60761	162.784266	1
191.994484	151.090135	191.994484	1
199.232812	159.957549	199.232812	1
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
193.392582	173.996259	193.392582	1
184.546337	145.437717	184.546337	1

187.031713	180.641528	187.031713	1
170.570632	151.457321	170.570632	1
158.976666	147.002025	158.976666	1
179.476131	149.653907	179.476131	1
189.979408	140.584107	189.979408	1
189.03342	172.201212	189.03342	1
175.051212	160.862826	175.051212	1
173.268784	154.431857	173.268784	1
182.86974	154.034351	182.86974	1
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
188.958887	159.910881	188.958887	1
177.447719	171.663406	177.447719	1
184.475191	166.850678	184.475191	1
198.098763	173.037243	198.098763	1
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
195.91693	147.772981	195.91693	1
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
191.531529	157.916893	191.531529	1
190.166173	150.801984	190.166173	1

178.931969	162.676552	178.931969	1
172.224639	153.239976	172.224639	1
169.992853	171.595716	169.992853	1
168.455079	169.236601	168.455079	1
154.831735	159.703527	154.831735	1
168.022773	160.826742	168.022773	1
186.680443	148.498166	186.680443	1
188.026223	147.444971	188.026223	1
192.065448	162.351248	192.065448	1
175.59825	153.635629	175.59825	1
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
191.428028	148.307854	191.428028	1
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
178.135308	167.901212	178.135308	1
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



168.922104	164.815206	168.922104	1
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
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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
176.582051	150.959668	176.582051	1
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
174.377288	154.564473	174.377288	1
196.853483	148.136415	196.853483	1

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
172.377934	164.37733	172.377934	1
184.025537	161.108822	184.025537	1
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174.914992	168.95775	174.914992	1
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170.640799	160.918124	170.640799	1
175.993539	141.913015	175.993539	1
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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
163.14338	161.638637	163.14338	1
182.852198	154.013319	182.852198	1
169.7527	149.265962	169.7527	1
183.965056	170.457779	183.965056	1
186.982827	157.254395	186.982827	1
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
183.970842	158.553358	183.970842	1
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
178.710109	160.493992	178.710109	1
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
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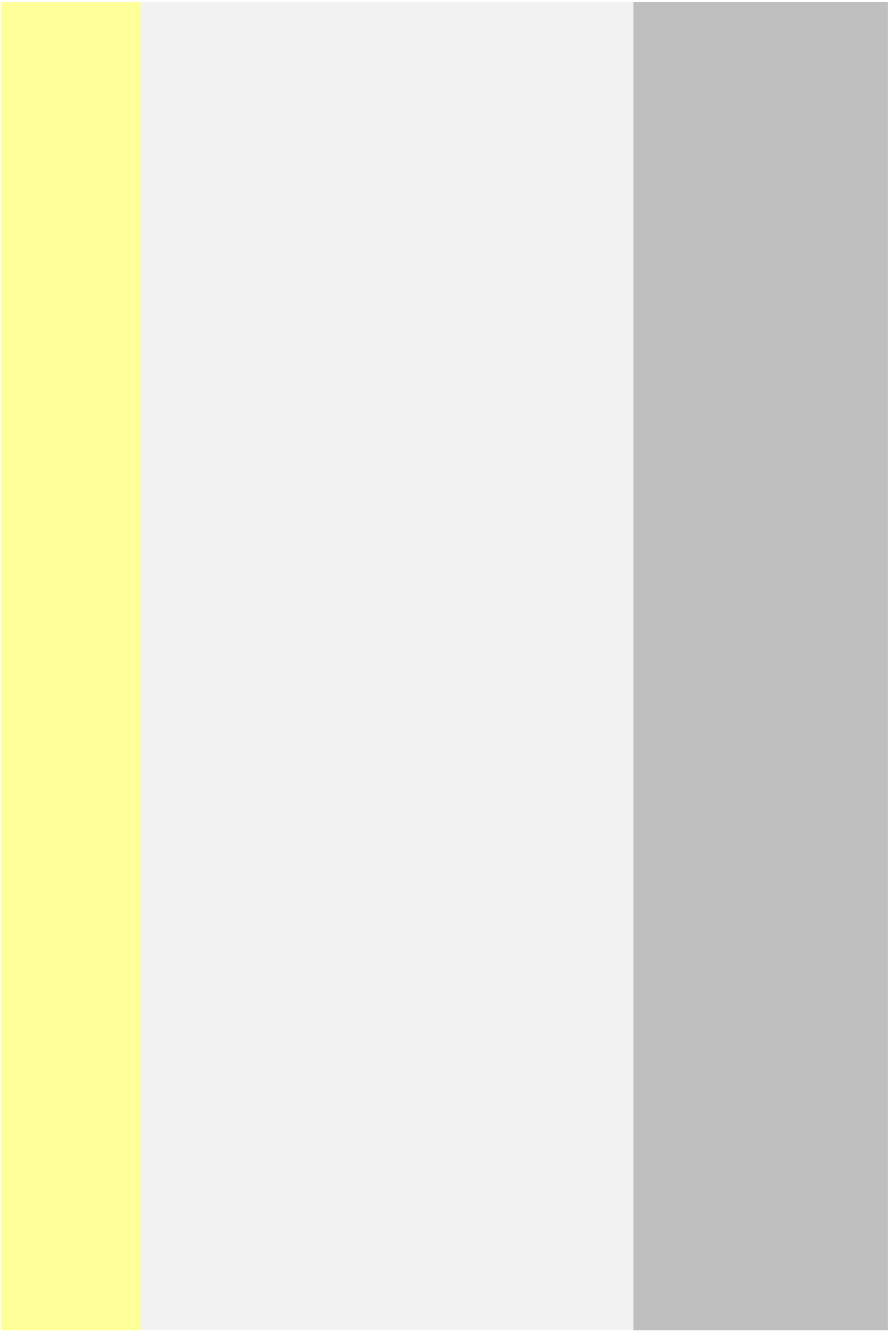
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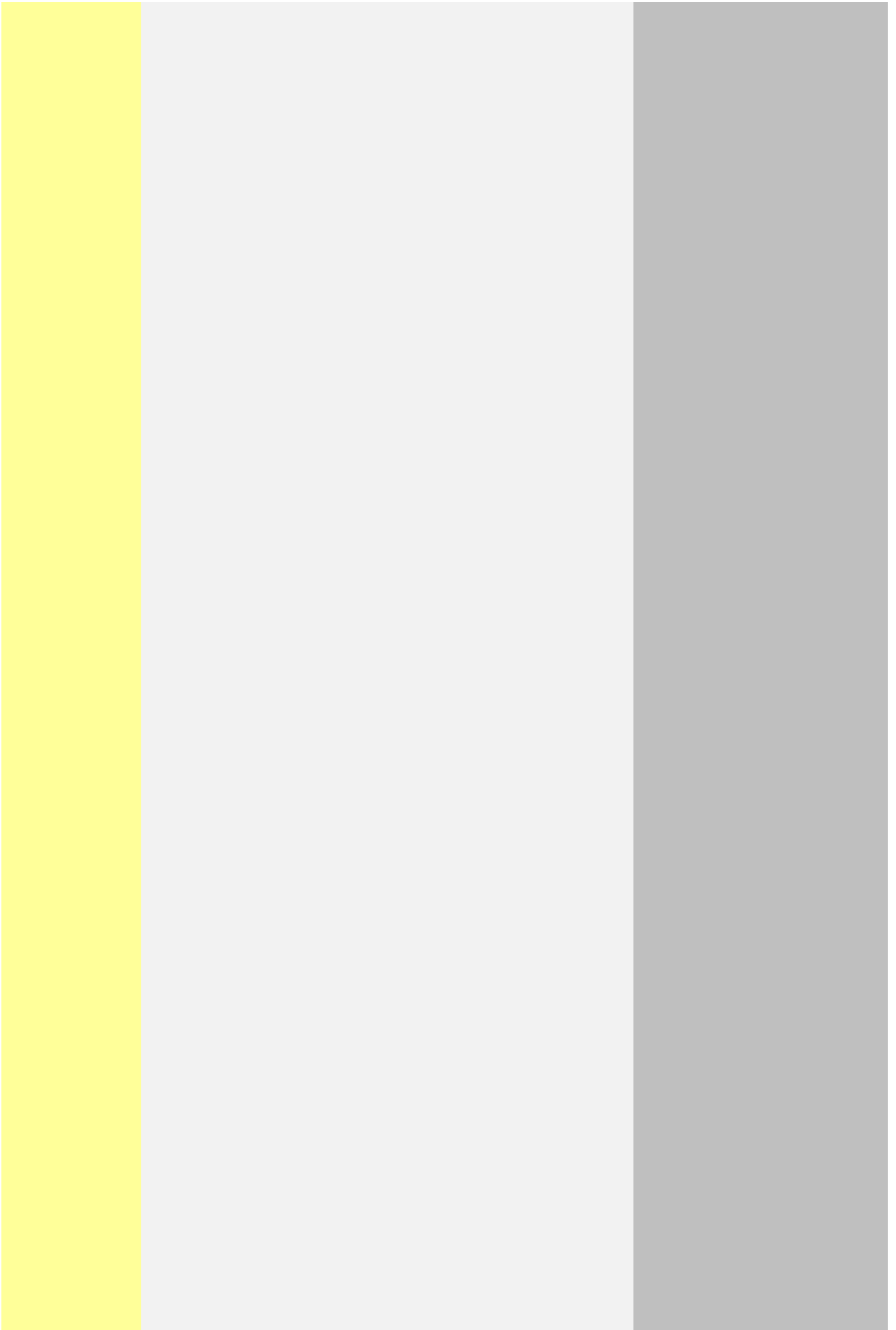
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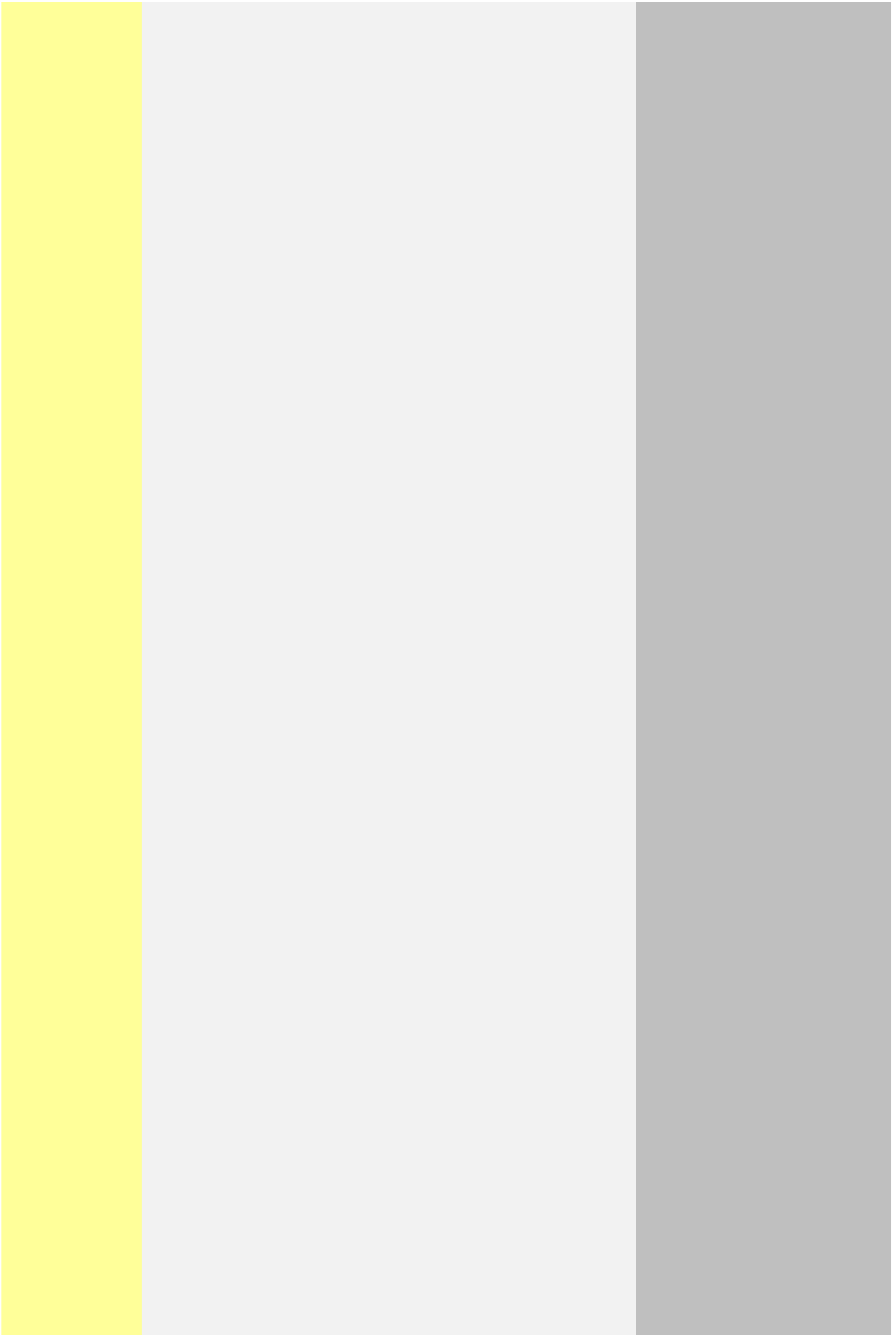


















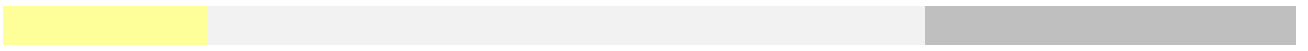












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197.331331	1	1.170591	9.106211	ano	180	140	-40	80.205462
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158.820688	1	0.97354	9.167469	ano	180	130	-50	108.206564
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175.959524	1	0.143113	8.91541	ano	140	130	-10	107.615745
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202.056884	1	2.36791	8.849418					97.223972
194.437546	1	1.638883	8.755187					110.976555
193.039039	1	0.587134	8.817099					101.612432
181.129604	1	2.031683	9.033408					85.400189
180.019509	1	2.464999	8.9383					121.728147
184.537014	1	3.330842	8.982033					115.394244
179.744853	1	1.919321	9.188029					107.955816
169.453249	1	0.368684	8.857439					79.631934
162.251938	1	3.645214	8.985299					85.893498
188.283314	1	0.639861	9.149192					97.239149
184.442245	1	1.676928	8.833716					120.722769
186.179062	1	0.630006	9.227229					114.833779
182.134732	1	1.825703	8.854985					130.809497
169.730691	1	1.894526	9.001137					80.172515
192.381952	1	0.67289	9.056537					116.101058
176.887868	1	0.327533	9.029547					103.781014
171.600782	1	2.563532	9.008216					108.395119
171.788718	1	0.878577	8.959746					100.999614
175.710073	1	0.722546	9.065231					105.664367

175.466385	1	0.11366	8.924214	71.954458
174.762049	1	14.819747		114.478701
188.494294	1	0.71923		100.049914
185.132074	1	1.496136		128.827253
173.916958	1	6.890404		100.957067
193.049794	1	2.342942		90.938858
162.390636	1	1.206114		95.998235
185.505717	1	0.402837		107.506299
178.837279	1	8.885532		74.940238
180.417413	1	0.128468		73.688136
173.45946	1	0.287901		134.205914
174.50406	1	0.415809		101.85849
188.493203	1	1.552065		103.401959
188.030452	1	0.528183		127.621945
184.564163	1	0.472132		115.042917
186.913683	1	0.294624		86.570231
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

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



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

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

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

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

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

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

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



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



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

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

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

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

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
190.875283	1	2.661105	85.508509
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
177.799478	1	0.579806	66.483028
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
167.087017	1	0.431979	95.804086
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
165.549448	1	1.503235	86.816817
169.881167	1	0.206827	87.835156

173.586835	1	0.946348	94.307291
173.024971	1	1.566546	117.128809
191.306884	1	0.560855	92.081155
176.682436	1	1.609122	70.830731
192.879605	1	3.171467	97.066232
171.030813	1	0.735561	88.954346
175.19423	1	0.596328	82.090435
183.582238	1	1.63098	82.083443
161.668134	1	0.429208	118.01294
185.43464	1	2.128833	102.23144
187.131985	1	3.414013	89.144555
197.660022	1	11.848564	107.64187
204.334804	1	3.56612	104.412334
175.72683	1	0.700856	85.398313
180.899684	1	0.950344	97.397725
169.451908	1	7.853438	114.716352
179.672912	1	0.548739	106.572304
158.097185	1	0.798585	101.672458
166.45776	1	0.474623	109.529708
179.407169	1	1.940762	95.926851
173.442407	1	2.573033	84.804526
173.648726	1	1.110578	117.66615
170.153128	1	0.827949	102.469585
175.71678	1	0.996373	109.53392
188.961183	1	0.441633	104.701945
164.270335	1	0.996449	67.865006
186.862297	1	0.534438	97.0288
178.79492	1	2.981363	110.114115
175.306416	1	0.789043	109.458222
176.697795	1	0.405213	101.863111
168.984064	1	3.37727	89.387663
196.548029	1	0.753827	123.523626
165.979275	1	0.724938	100.801901
186.597486	1	0.899186	88.174818
186.532014	1	0.262089	116.534443
189.03342	1	0.16515	83.07228
187.08078	1	1.605681	128.640488
189.756582	1	1.994313	87.62994
171.338814	1	1.358525	108.663551
199.060553	1	3.975422	102.509148
187.826179	1	0.818641	91.324256
174.780467	1	0.146127	103.073092
172.113408	1	0.900709	85.994964
182.482	1	0.245986	122.255836
201.91955	1	6.173143	99.929435
199.218169	1	0.216984	98.007286
187.837616	1	9.662061	107.345471
191.29963	1	1.375546	79.603081
163.520775	1	2.173854	117.13986
184.995536	1	1.721809	69.49623

172.498078	1	0.926178	86.375485
186.859386	1	3.686289	67.295844
186.259802	1	3.882677	107.475109
185.988511	1	0.073983	91.104937
182.452816	1	1.752299	110.671374
158.681808	1	0.314513	113.955446
178.777184	1	0.630167	115.820126
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168.714853	1	0.286226	89.996525
171.824029	1	1.846995	67.784788
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186.086725	1	1.84819	104.110052
171.239315	1	0.986363	102.156048
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174.666166	1	0.924546	109.20478
181.043418	1	0.427002	87.596038
189.127007	1	1.025686	53.812221
188.004076	1	1.810573	102.330108
179.06421	1	0.407125	108.062995
172.674293	1	0.643273	90.530591
178.406315	1	0.620872	109.427424
167.989804	1	1.196581	72.834121
172.070525	1	0.443048	64.847848
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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

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
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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
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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
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