find outliers by the method of inner fences

measurement No.	Pb concentration [ng/ml]
1	37.9
2	22.8
3	13.4
4	31.6
5	50.8
6	20.2
7	13.0
8	26.7
9	76.1
10	22.0

find outliers by Grubbs test

measurement No.	Pb concentration [ng/ml]
1	37.9
2	22.8
3	13.4
4	31.6
5	50.8
6	20.2
7	13.0
8	26.7
9	76.1
10	22.0

$$G = \frac{\bar{Y} - Y_{min}}{s}$$

$$G = \frac{Y_{max} - \bar{Y}}{s}$$

n	g_{crit} $\alpha=0.05$
3	1.1543
4	1.4812
5	1.7150
6	1.8871
7	2.0200
8	2.1266
9	2.2150
10	2.2900
11	2.3547
12	2.4116
13	2.4620
14	2.5073

Glucose concentration (mmol/L) was repeatedly determined.
Find the 95%-confidence interval for the population mean according to Student!

5.09
5.46
4.17
4.83
4.50
4.93
4.13
4.62
5.03
4.54
5.00
5.68
5.02
4.79

$$\left\langle \overline{x} - t_{(\alpha, n-1)} * \frac{s}{\sqrt{n}} \; ; \; \overline{x} + t_{(\alpha, n-1)} * \frac{s}{\sqrt{n}} \right\rangle$$