1. **Problem**
   From a very large population, a small sample of measurements was taken.

183	186	191	184	192

   Please calculate the average absolute deviation using the following formula:

   $$AAD = \frac{\sum |x - \bar{x}|}{n}$$

   Solution
   We fill out the table column by column.

x	$x - \bar{x}$	$|x - \bar{x}|$
183	-4.19999999999999	4.2
186	-1.19999999999999	1.2
191	3.80000000000001	3.8
184	-3.19999999999999	3.2
192	4.80000000000001	4.8
========	========	========
$\sum x = 936$		$\sum |x - \bar{x}| = 17.2$
$\bar{x} = 187.2$		

   We are ready for the formula.

   $$s = \frac{\sum |x - \bar{x}|}{n}$$

   $$= \frac{17.2}{5}$$

   $$= \boxed{3.44}$$

2. **Problem**
From a very large population, a small sample of measurements was taken.

98	94	94	94

Please calculate the (Bessel corrected) sample standard deviation using the following formula:

$$s = \sqrt{\frac{\sum(x - \bar{x})^2}{n - 1}}$$

Solution
We fill out the table column by column.

x	$x - \bar{x}$	$(x - \bar{x})^2$
98	3	9
94	-1	1
94	-1	1
94	-1	1
=======	=======	=======
$\sum x = 380$		$\sum(x - \bar{x})^2 = 12$
$\bar{x} = 95$		

We are ready for the formula.

$$s = \sqrt{\frac{\sum(x - \bar{x})^2}{n - 1}}$$

$$= \sqrt{\frac{12}{4 - 1}}$$

$$= \sqrt{4}$$

$$= \boxed{2}$$