An array of nn different numbers is given. What is the distance between the minimum and maximum of them, namely how many numbers in the array lie between the minimum and maximum?

The first line contains the number of numbers n $(2 \leq n \leq 10^4)$. The second line contains n numbers a_i $(1 \leq a_i \leq 10^4)$. It is guaranteed that all numbers are different.

Sample input 1:
4
3 1 4 2

Sample output 1:
0

Sample input 2:
6
1 5 4 3 2 12

Sample output 2:
4