

# Problem D

## Snowed In

Problem ID: snowed

After its successful rainfall measurement campaign, the University of Chicago Weather Service is ready to undertake a new challenge: measuring snowfall. More specifically, each day a volunteer will take measurements of how deep the snow is at various points around campus. Each measurement is a non-negative integer. Given this information, we would like to compute the difference between the biggest and smallest depth observed.

### Input

The input is composed of two lines. The first line contains a single positive integer  $n$  ( $1 \leq n \leq 100$ ) that specifies the number of measurements. The second line contains the measurements, each separated by a single space.

### Output

You must print a single integer: the difference between the biggest and the smallest measurement in the dataset.

#### Sample Input 1

3 5 10 15	Sample Output 1 10
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#### Sample Output 1

#### Sample Input 2

5 14 5 39 5 7	Sample Output 2 34
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#### Sample Output 2