

### A Freshman's Dilemma

Freshman at VCU often face the overwhelming dilemma of ordering college textbooks for the first time. Marked up textbook prices, coupled with aggressive marketing may often leave a student drastically overpaying for a text they could have gotten for a lower price. Thankfully, the strong programmers in CMSC 256 have come to the rescue. You will write a Java program that will take in a list of textbook prices and return the difference between the largest and smallest price to show VCU freshman just how much they could be saving.

#### Input

The input will consist of an integer  $2 \leq n \leq 1000$  followed by a list of floating point numbers  $d_1, d_2, \dots, d_n$  representing prices gathered from different vendors for the same textbook. No textbook will be appraised higher than \$1000 by a vendor.

#### Output

The output will consist of a single floating point number, rounded to 2 decimal places, representing the difference between the largest and smallest price quoted by a textbook vendor.

#### Sample Input

5  
143.43  
29.98  
75.84  
99.49  
59.99

#### Sample Output

113.45