

## Problem K. Minimum Loss

OS Linux

Lauren has a chart of distinct projected prices for a house over the next several years. She must buy the house in one year and sell it in another, and she must do so at a loss. She wants to minimize her financial loss.

### Example

*price* = [20, 15, 8, 2, 12]

Her minimum loss is incurred by purchasing in year 2 at *price*[1] = 15 and reselling in year 5 at *price*[4] = 12. Return  $15 - 12 = 3$ .

### Function Description

Complete the *minimumLoss* function in the editor below.

*minimumLoss* has the following parameter(s):

- *int price[n]*: home prices at each year

### Returns

- *int*: the minimum loss possible

### Input Format

The first line contains an integer *n*, the number of years of house data.

The second line contains *n* space-separated long integers that describe each *price*[*i*].

### Constraints

- $2 \leq n \leq 2 \times 10^5$
- $1 \leq \textit{price}[i] \leq 10^{16}$
- All the prices are distinct.
- A valid answer exists.

### Subtasks

- $2 \leq n \leq 1000$  for 50% of the maximum score.

Input	Output
3 5 10 3	2

**Explanation 0**

Lauren buys the house in year **1** at *price*[0] = **5** and sells it in year **3** at *price*[2] = **3** for a minimal loss of **5** − **3** = **2**.

Input	Output
5 20 7 8 2 5	2

**Explanation 1**

Lauren buys the house in year **2** at *price*[1] = **7** and sells it in year **5** at *price*[4] = **5** for a minimal loss of **7** − **5** = **2**.