

## Problem E

# Choose A Gift

Time limit: 1 second  
Memory: 1024 megabytes

### Problem Description

Due to achieving high results at the end of the school year, little An has been promised a teddy bear from the Byteland supermarket by both his father and mother. Currently, the supermarket has  $n$  teddy bears numbered from  $1$  to  $n$ , with the value of the  $i^{\text{th}}$  teddy bear being a positive integer  $a_i$  ( $1 \leq a_i \leq 10^6$ ,  $1 \leq i \leq n$ ). An wants to choose two teddy bears with different values.

**Your task:** Calculate the maximum total value of the two teddy bears that little An can buy!

### Input:

- The first line contains the positive integer  $n$  ( $n \leq 10^6$ ).
- The second line contains  $a_1, a_2, \dots, a_n$  separated by a space.

### Output:

- Output a single integer, which is the maximum total value of the two teddy bears that little An can buy. If it is not possible to buy as desired, output **-1**.

### Example:

INPUT	OUTPUT
5 2 4 3 4 3	7