## **∞** COLLECT **∞**

A game is played on a straight line, on which there are K items placed. The i-th item is located at coordinate  $X_i$ .

You start at coordinate 0, then you must run to collect all the items in order. That is, starting from position 0, you must run to  $X_1$ , then to  $X_2$ , and so on until  $X_K$ .

Calculate the total distance you need to run.

## Input

The first line contains an integer K, the number of items you must collect ( $1 \le K \le 100$ ).

The next K lines each provides the coordinate  $X_i$  of item i ( $-1000 \le X_i \le 1000$ ) in order of i. Multiple items may be placed at the same position.

## **Output**

Output the total distance you need to run.

## **Example**

Input	Output
4	4
1	
2	
3	
4	
5	40
10	
5	
10	
5	
20	