D. Maximal Difference

time limit per test: 2 seconds memory limit per test: 64 megabytes input: standard input

output: standard output

You are given an array of integers a_i . Find the largest absolute value of difference between adjacent elements of the array $max(abs(a_i - a_{i+1}))$.

Input

The only line of the input contains a list of space-separated integers a_i ($1 \le a_i \le 100$) — elements of the array. The size of the array is between 2 and 10, inclusive. Note that the size of the array is not given explicitly!

Output

Output a single integer — the largest absolute value of difference between adjacent elements of the array.

Examples

input
2 10 4 8 6 12
output
8

input			
3 3			
output			
0			