## **三 Challenge**

## >\_ Test Case Output

# **Programming Challenge Description:**

Bob is developing a new strategy to get rich in the stock market. He wishes to invest his portfolio for 1 or more days, then sell it at the right time to maximize his earnings. Bob has painstakingly tracked how much his portfolio would have gained or lost for each of the last N days. Now he has hired you to figure out what would have been the largest total gain his portfolio could have achieved.

Example: Bob kept track of the last 10 days in the stock market. On each day, the gains/losses are as follows: 7 - 3 - 10 + 2 + 8 - 2 + 5 - 2. If Bob entered the stock market on day 4 and exited on day 8, his gains would have been 16 (4 + 2 + 8 + -2 + 4).

### Input:

The input consists of integers on a line separated by spaces. The input contains N, the number of days (0 < N < 10000), followed by N integers D (-10000 < D < 10000) indicating the gain or loss on that day.

#### **Output:**

For each test case, print a line containing the maximum possible gain over the period. If no gain is possible, print 0.

## Test 1

Test Input 🖺

10 7 -3 -10 4 2 8 -2 4 -5 -6

Expected Output

16