**Cricket Rating**

Attempted by: **2460**

/

Accuracy: **93%**

/

Maximum Score: **20**

/

27 Votes

Tag(s):

Ad-Hoc, Algorithms, Easy, Implementation

**PROBLEM**

**EDITORIAL**

**MY SUBMISSIONS**

**ANALYTICS**

India is a cricket crazy nation. Chang also loves cricket and computations related to cricket. Chang has created a Cricket app.This app analyses the performance of a cricketer. If a cricketer under-performs, then a negative rating is awarded. If performance is good, then positive rating is awarded to the cricketer.Chang wants to analyse the performance of a cricketer over a period of NN matches. Chang wants to find consistency of a cricketer. So he wants to find out the maximum consistent sum of cricket rating of a batsman or a bowler only if his overall rating is **positive** over that period. Help chang in doing so.

**Input**

The first line contain number of matches "NN" over which the analysis is to be done. The second line contains those ratings of a batsman/bowler in those NN matches.

**Output**

Print a single integer ie. the maximum consistent sum of rating of the cricketer if it is positive otherwise output 00 (zero).

**Constraint**

0≤N(matches)≤1050≤N(matches)≤105

−100≤rating≤+100−100≤rating≤+100

**SAMPLE INPUT**

8

-1 -4 4 -2 0 1 4 -5

**SAMPLE OUTPUT**

7

**Explanation**

here the maximum consistent and continuous sum of rating is 4+(−2)+0+1+4=74+(−2)+0+1+4=7

**Time Limit:**3.0 sec(s) for each input file.

**Memory Limit:**256 MB

**Source Limit:**1024 KB

**Marking Scheme:**Marks are awarded when all the testcases pass.

**Allowed Languages:**C, C++, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Scala 2.11.8, Swift, Visual Basic

<https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/cricket-rating-30/>

#include <iostream>

#include <stdio.h>

using namespace std;

int maxSubArraySum(int a[], int size)

{

int max\_so\_far = a[0];

int curr\_max = a[0];

for (int i = 1; i < size; i++)

{

curr\_max = max(a[i], curr\_max+a[i]);

max\_so\_far = max(max\_so\_far, curr\_max);

}

return max\_so\_far;

}

int main() {

int n;

scanf("%d", &n);

if(n ==0) {

printf("%d", 0);

}else {

int a[n];

for(int i =0; i<n; i++) {

scanf("%d", &a[i]);

}

printf("%d", maxSubArraySum(a, n));

}

//system("pause");

return 0;

}