









Problem: Week 1 - Basic queries on array

Description

Given a sequence of integers a1, a2, ..., an. Perform a sequence of queries over this sequence including:

- find-max: return the maximum element of the given sequence
- find-min: return the minimum element of the given sequence
- sum: return the sum of the elements of the given sequence
- find-max-segment i j: return the maximum element of the subsequence from index i to index j (i <= j)

Input

- The first block contains the information about the given sequence with the following format:
 - Line 1: contains a positive integer n (1 <= n <= 10000)
 - Line 2: contains n integers a1, a2, ..., an (-1000 <= ai <= 1000)
 - The first block is terminated by a character *
- The second block contains a sequence of queries defined above, each query is in a line. The second block is terminated a 3 characters ***

Output

• Write the result of each query in a corresponding line

Example

Input

5

14325

*

find-max

find-min

find-max-segment 1 3

find-max-segment 2 5

sum

Output

5

1

4

5

15

Sample TestCase

C 17

1 Write your Source code here

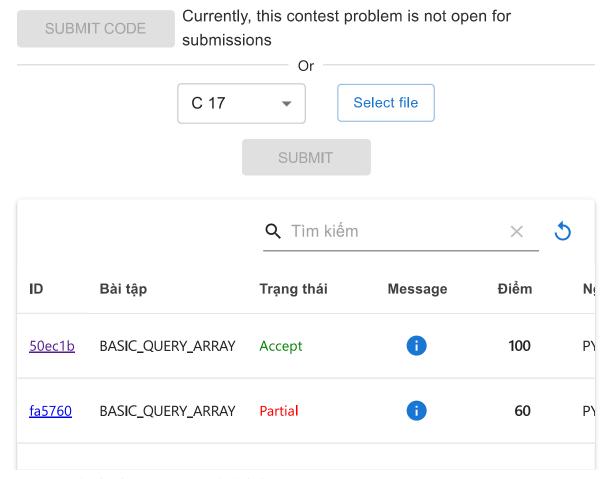
Source code

int main()

#include <stdio.h>

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ID	Bài tập	Trạng thái	Message	Điểm	N
<u>e1864a</u>	BASIC_QUERY_ARRAY	Partial	•	60	PΥ
<u>14fe91</u>	BASIC_QUERY_ARRAY	Partial	•	80	P\
<u>477939</u>	BASIC_QUERY_ARRAY	Partial	•	60	PΥ
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