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

1 4 3 2 5

*

find-max

find-min

find-max-segment 1 3

find-max-segment 2 5

sum

***

Output

5

1

4

5

15

Sample TestCase

<div style="text-align: right;">C 17 ▾</div>

```
1    Write your Source code here
```

Source code

<div style="text-align: right;">C 17 ▾</div>

```c
1  //C
2  #include <stdio.h>
3
4  int main()
5  {
6
7  }
```

SUBMIT CODE

Currently, this contest problem is not open for submissions

Or

C 17 ▼

Select file

SUBMIT

🔍 Tìm kiếm ✕ ↺

ID	Bài tập	Trạng thái	Message	Điểm	Nạ
50ec1b	BASIC_QUERY_ARRAY	Accept	ⓘ	100	PY
fa5760	BASIC_QUERY_ARRAY	Partial	ⓘ	60	PY

ID	Bài tập	Trạng thái	Message	Điểm	N¿
e1864a	BASIC_QUERY_ARRAY	Partial	ℹ	60	PY
14fe91	BASIC_QUERY_ARRAY	Partial	ℹ	80	PY
477939	BASIC_QUERY_ARRAY	Partial	ℹ	60	PY
	5 hàng ▾	|<	< 1-5 của 6 >	>|