



Static Range Sum

AC一覽

Problem Statement

You are given a non-negative integer sequence $A = (a_0, a_1, \dots, a_{N-1})$ with the length N . Process the following Q queries in order:

- You are given integers l_i and r_i . Print $\sum_{k=l_i}^{r_i-1} a_k$.

Constraints

- $1 \leq N \leq 500,000$
- $1 \leq Q \leq 500,000$
- $0 \leq a_i \leq 10^9$
- $0 \leq l_i < r_i \leq N$

Input

$N \ Q$
 $a_0 \ a_1 \ \dots \ a_{N-1}$
 $l_1 \ r_1$
 \vdots
 $l_Q \ r_Q$

Sample

1

```
5 5
1 10 100 1000 10000
2 3
0 3
2 5
3 4
0 5
```

```
100
111
11100
1000
11111
```

FORUM [↗](#)

Timelimit: 5 secs