Point Add Range Sum

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Problem Statement

You are given an integer sequence $a_0, a_1, ..., a_{N-1}$ with the length N. Process the following Q queries in order:

- `0` p x : $a_p \leftarrow a_p + x$
- `1` l r : Print $\sum_{i=l}^{r-1} a_i$

Constraints

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

Input

N Q
a_0 a_1 $\ldots$ a_{N-1}
Query_0
Query_1
:
Query_{Q-1}

1

```
5 5
1 2 3 4 5
1 0 5
1 2 4
0 3 10
1 0 5
1 0 3
```

```
15
7
25
6
```

FORUM

Timelimit: 5 secs

Textarea