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## B. K-th one

time limit per test: 1 second memory limit per test: 1024 megabytes input: standard input output: standard output

In this problem, you need to add to the segment tree the operation of finding the k-th one.

## Input

The first line contains two numbers n and m ( $1 \le n, m \le 100000$ ), the size of the array and the number of operations. The next line contains n numbers  $a_i$ , the initial state of the array ( $a_i \in \{0,1\}$ ). The following lines contain the description of the operations. The description of each operation is as follows:

- 1 *i*: change the element with index *i* to the opposite.
- 2 k: find the k-th one (ones are numbered from 0, it is guaranteed that there are enough ones in the array).

## Output

For each operation of the second type, print the index of the corresponding one (all indices in this problem are from 0).

## **Example**



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