



HOME CONTESTS GYM PROBLEMSET GROUPS RATING API CANADA CUP 🖫 SECTIONS

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

#### B. Game of Robots

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

In late autumn evening n robots gathered in the cheerful company of friends. Each robot has a unique identifier — an integer from 1 to  $10^9$ .

At some moment, robots decided to play the game "Snowball". Below there are the rules of this game. First, all robots stand in a row. Then the first robot says his identifier. After that the second robot says the identifier of the first robot and then says his own identifier. Then the third robot says the identifier of the first robot, then says the identifier of the second robot and after that says his own. This process continues from left to right until the *n*-th robot says his identifier.

Your task is to determine the k-th identifier to be pronounced.

#### Input

The first line contains two positive integers n and k ( $1 \le n \le 100000$ ,  $1 \le k \le min(2 \cdot 10^9, n \cdot (n+1)/2)$ .

The second line contains the sequence  $id_1$ ,  $id_2$ , ...,  $id_n$  ( $1 \le id_i \le 10^9$ ) — identifiers of roborts. It is guaranteed that all identifiers are different.

#### **Output**

Print the K-th pronounced identifier (assume that the numeration starts from 1).

#### Examples

input	
2 2 1 2	
output	
1	
input	

### 

#### Note

In the first sample identifiers of robots will be pronounced in the following order: 1, 1, 2. As k = 2, the answer equals to 1.

In the second test case identifiers of robots will be pronounced in the following order: 10, 10, 4, 10, 4, 18, 10, 4, 18, 3. As k = 5, the answer equals to 4.

#### Codeforces Round #350 (Div. 2)

#### **Finished**

#### → Virtual participation

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Start virtual contest

## → Problem tags (implementation) No tag edit access

# → Contest materials Announcement ▼