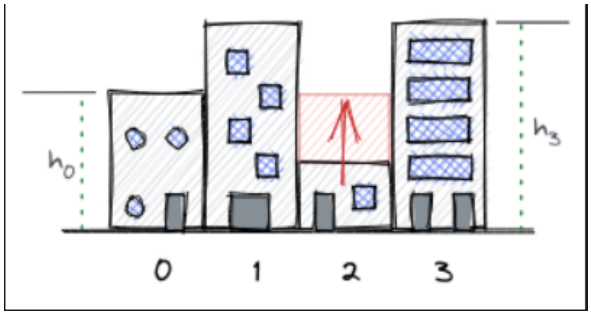
Builder's Dream

Problem Submissions

Problem Statement

There are n buildings in a row. The height of the i-th building is hi.



You have k taka. It is the amount of money you have. With 1 taka you can increase the height of a building by 1. So you want to spend k taka in such a way that after spending k taka the height of the lowest building will be maximized.

Input Format

- The first line of the input will consist of two integers n ($1 \leq n \leq 10^5$) the number of buildings and k($0 \leq k \leq 10^9$) (the amount of money you have).
- The next line will consist of n integers the height of the buildings($0 \leq hi \leq 10^9$).

Constraints

- $1 \leq n \leq 10^5$, $0 \leq k \leq 10^9$
- $0 \leq hi \leq 10^9$

Output Format

Print a single integer the height of the lowest building.

Sample Input 0

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

Sample Output 0

```
5
```

Sample Input 1

```
1 10
10
```

Sample Output 1

```
20
```

Contest ends in 1 hour 27 minutes 43 seconds

Submissions: 10
Max Score: 1

Rate This Challenge:

More

C++

```cpp
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;


int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}

```

Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code