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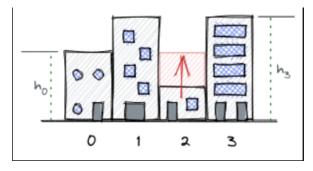
Builder's Dream

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 ($1 \le n \le 10^5$) the number of buildings and k($0 \le k \le 10^9$) (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

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

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
                                                                                \forall
                                                                                    in
                                                                             Contest ends in 1 hour 27 minutes 43 seconds
                                                                             Submissions: 10
                                                                             Max Score: 1
                                                                             Rate This Challenge:
                                                                             More
                                                                                C++
                                                                                                                 \Diamond
    1 ▼#include <cmath>
       #include <cstdio>
    2
      #include <vector>
   3
      #include <iostream>
    5
      #include <algorithm>
    6
      using namespace std;
    7
   8
   9 vint main() {
           /\star Enter your code here. Read input from STDIN. Print output to STDOUT \star/
   10 🔻
   11
           return 0;
   12
      }
   13
                                                                                                         Line: 1 Col: 1
<u>♣ Upload Code as File</u> Test against custom input
                                                                                           Run Code
                                                                                                         Submit Code
```

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