G	Buildings!	Time Limit: **1 sec**
	Setter: Sifat Rabbi	Memory Limit: **512 MB**

There are **n** buildings in a row. The height of the **i-th** building is h_i. You have **k** taka. 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:

First line of the input will consist of two integers - **n** the number of buildings and **k** the amount of taka you have. The next line will consist of **n** integers the height of the buildings. **($1 <= n <= 10^5$ and $0 <= k, h_i <= 10^9$)**

Output:

Print a single integer the height of the lowest building.

Sample I/O:

Sample Input	Sample Output
5 10 1 2 3 4 5	5
1 10 10	20