



Утегенов Батырхан Елембетұлы [ADS-Lab-05]: Submit a solution

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Submit a solution for C-Standard problem about soccer

Time limit: 1 s

Real time limit: 5 s

Memory limit: 256M

Problem C: Standard problem about soccer

Kakyoin loves football and he goes to the final of the World Cup. At the stadium, he noticed that there are n rows, each can accommodate a distinct number of people. The price of the ticket depends on the row. If there are k ($k > 0$) free seats in the row, then the price of one ticket will be equal to k . What is the maximum amount of money stadium management can get if there are x people in line for a ticket?

Input format

The first line consists of n and x ($1 \leq n, x \leq 10^5$). n denotes the number of seating rows in the stadium and x denotes the number of football fans waiting in line to get a ticket for the match.

Next line consists of n space separated integers $a_1, a_2, a_3, \dots, a_n$ where a_i ($1 \leq a_i \leq 10^5$) denotes the number of empty seats initially in the i -th row.

It is guaranteed that there are enough free seats for all visitors.

Output format

Print one integer - the maximum amount of money the stadium can earn.

Examples

Input

```
3 10
6 8 9
```

Output

```
67
```

Input

```
1 2
5
```

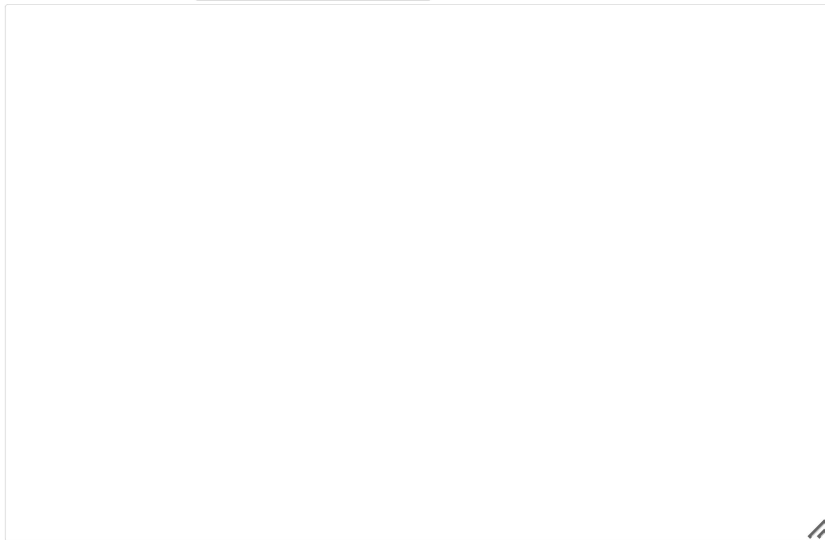
Output

```
9
```

Submit a solution

Language:

g++ - GNU C++ 11.4.0 ▼



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[ejudge 3.10.3+ \(GIT 6da71ff82\) \(2023-08-02 06:59:26\).](#)

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