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

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18:18:27 / **RUNNING**

| A | B | C | D | E |

Submit a solution for E-K-th sum

Time limit: 1 s

Real time limit: 5 s

Memory limit: 256M

Problem E: K-th sum

Nurdana loves cookies! She stores all the cookies in separate boxes, but mom allows her to store only k boxes. Her dad is an assistant in this matter. He gives her a box in which there are n cookies. Help her calculate how many cookies she can have?

Input format

The first line contains two integers q and k ($1 \leq q, k \leq 10^5$). Each of the following q lines contains one command.

There are two types of commands:

- *insert* n - dad gives a box with n cookies ($0 \leqslant n \leqslant 10^9$)

- *print* - print the maximum number of cookies Nurdana can have

Output format

For each query of type *print* print the maximum sum of cookies if consider no more than k boxes.

Examples

Input

```
6 4
print
insert 9
insert 6
print
insert 10
print
```

Output

```
0
15
25
```

Notes

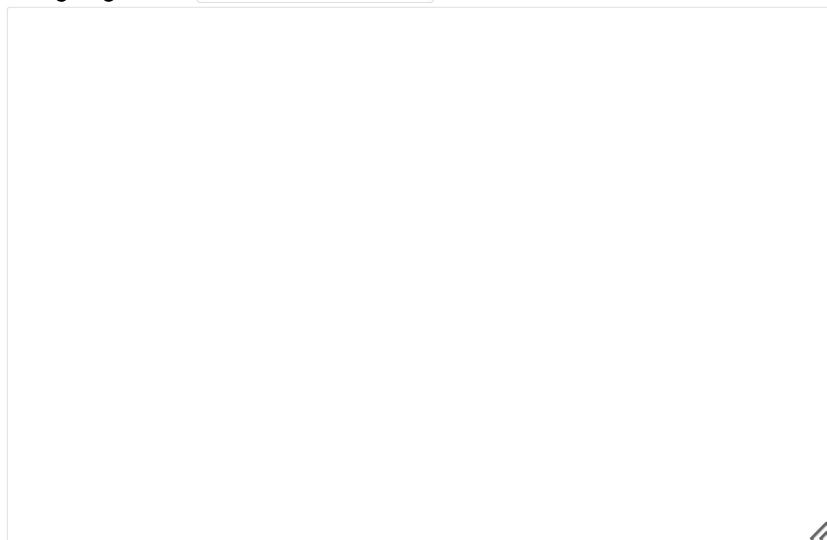This problem must be solved using a heap.

Use long long type for the sum of elements.

Since k is fixed, you don't need to store all numbers, only k largest elements.

Submit a solution

Language:　　 g++ - GNU C++ 11.4.0　⌄

File   Выберите файл   Файл не выбран
Send!   Send!

Previous submissions of this problem

Run ID	Time	Size	Problem	Language	Result	Failed test	View source	View report
1711	1212:03:45	2112	E	g++	OK	N/A	View	View

| A | B | C | D | E |

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

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