



Утегенов Батырхан Елембетұлы [ADS-Lab-03]: Submit a solution

Info	Summary	Submissions	Standings	Submit clar	Clars	Settings
Logout [ads23_22B030458]						

14:26:37 / RUNNING

A	B	C	D	E	F	G	H	I	J	K
---	---	---	---	---	---	---	---	---	---	---

Submit a solution for G-Santa Jonathan

Time limit: 1 s

Real time limit: 5 s

Memory limit: 256M

Problem G: Santa Jonathan

Christmas is coming! It means that each child living in the Duck Islands must receive a long-awaited gift. All children from the same island wish for rubber duck of the same color (colors are distinct among all islands). During one flight Santa Jonathan can deliver gifts only of one color and the number of gifts that he can deliver at a time is restricted by the capacity of his bag. Santa Jonathan appreciates his time very much, so he wants to do no more than f flights. Please, help him find the least possible capacity of the bag to deliver all gifts during no more than f flights.

Input format

The first line of the input contains two integers n and f - number of islands in the Duck Kingdom and number of flights ($1 \leq n \leq f \leq 10^5$).

The second line of the input contains n integers c_i - number of children in the i_{th} island ($1 \leq c_i \leq 10^4$).

Output format

Please, find the least possible capacity of the bag that satisfies all conditions.

Examples

Input

```
3 6
10 10 10
```

Output

```
5
```

Input

```
5 7
10 34 14 6 20
```

Output

```
17
```

Submit a solution

Language: g++ - GNU C++ 11.4.0

File

Choose File

No file chosen

Send!

Send!

Previous submissions of this problem

Run ID	Time	Size	Problem	Language	Result	Failed test	View source	View report
5269	893:20:31	869	G	g++	OK	N/A	View	View

A

B

C

D

E

F

G

H

I

J

K

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

Copyright © 2000-2023 Alexander Chernov.