

HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

STEP 1 STEP 2 STEP 3 STEP 4 STEP 5 | THEORY PRACTICE | SUBMIT SUBMISSIONS HACKS STANDINGS CUSTOM INVOCATION ITMO Academy: pilot course » Binary Search » Step 2 » Practice

G. Student Councils

time limit per test: 0.5 seconds memory limit per test: 256 megabytes input: standard input output: standard output

Given the number k. Each student council must consist of k students. Important rule: each council should be composed of students from different groups. That is, no two students from the same group can be in the same council.

Of course, each student should be in no more than one council (it is possible that some students are not included in any).

An array a[1..n] is given, where a[i] is the number of students in the i-th group. What is the maximum number of councils can be formed?

Input

The first line contains integer k ($2 \le k \le 20$). The second line contains integer n ($k \le n \le 50$). Next lines contain elements $a[1], a[2], \ldots, a[n]$ ($1 \le a[i] \le 10^9$).

Output

Print the required value.

Examples

input	Сору
3	
5	
4	
4	
4	
4	
4	
output	Сору
6	

input	Сору
4	
6	
1	
2	
3	
4	
5	
6	
output	Сору
5	

Codeforces (c) Copyright 2010-2024 Mike Mirzayanov The only programming contests Web 2.0 platform Server time: Jun/29/2024 13:49:25 (l1). Desktop version, switch to mobile version.

Privacy Policy

Supported by





