A. Vanya and Fence

time limit per test: 1 second memory limit per test: 256 megabytes

Vanya and his friends are walking along the fence of height h and they do not want the guard to notice them. In order to achieve this the height of each of the friends should not exceed h. If the height of some person is greater than h he can bend down and then he surely won't be noticed by the guard. The height of the i-th person is equal to a_i .

Consider the width of the person walking as usual to be equal to 1, while the width of the bent person is equal to 2. Friends want to talk to each other while walking, so they would like to walk in a single row. What is the minimum width of the road, such that friends can walk in a row and remain unattended by the guard?

Input
The first line of the input contains two integers n and h ($1 \le n \le 1000$, $1 \le h \le 1000$) — the number of friends and the height of the fence,

The second line contains n integers a_i ($1 \le a_i \le 2h$), the i-th of them is equal to the height of the i-th person

Output

Print a single integer — the minimum possible valid width of the road.

Output

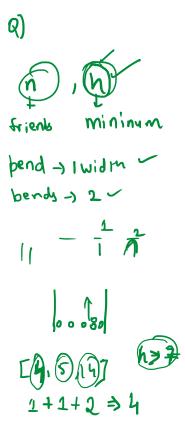


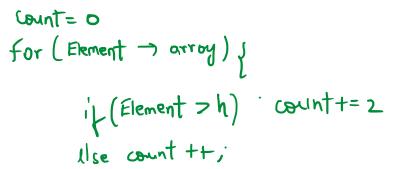
Note

output

In the second sample, all friends are short enough and no one has to bend, so the width 1+1+1+1+1+1=6 is enough.

In the third sample, all the persons have to bend, except the last one. The required minimum width of the road is equal to 2+2+2+2+1=11.





B. Little Nikita

time limit per test: 1 second memory limit per test: 256 megabytes

Initially, the tower doesn't have any cubes. In one move, Nikita either puts exactly 1 cubes on top of the tow from the top of the tower. Is it possible that after n moves, the resulting tower has exactly m cubes?

Each test contains multiple test cases. The first line of input contains a single integer t $(1 \le t \le 100)$ — the number of test cases. The

The only line of each test case contains two integers n and m ($1 \le n, m \le 100$).

For each test case, output "Yes" (without quotes) if Nikita can obtain a tower with m cubes, and "No" (without quotes) otherwise

You can output each letter in any case (lowercase or uppercase). For example, the strings "yEs", "yes", "Yes", and "YES" will be accepted as a positive answer

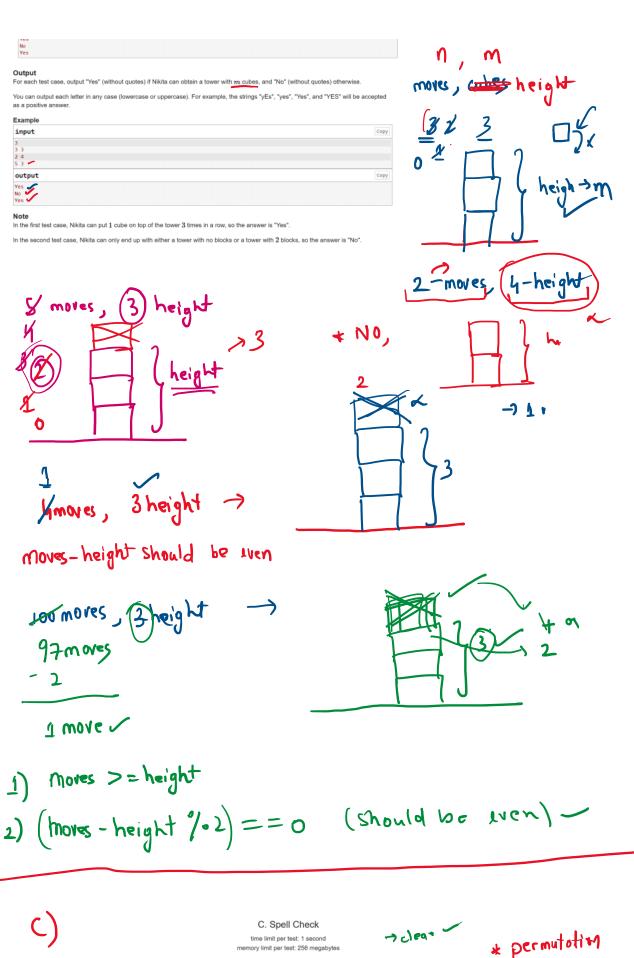
Example input Сору output

Output

For each test case, output "Yes" (without quotes) if Nikita can obtain a tower with $m{m}$ cubes, and "No" (without quotes) otherwise



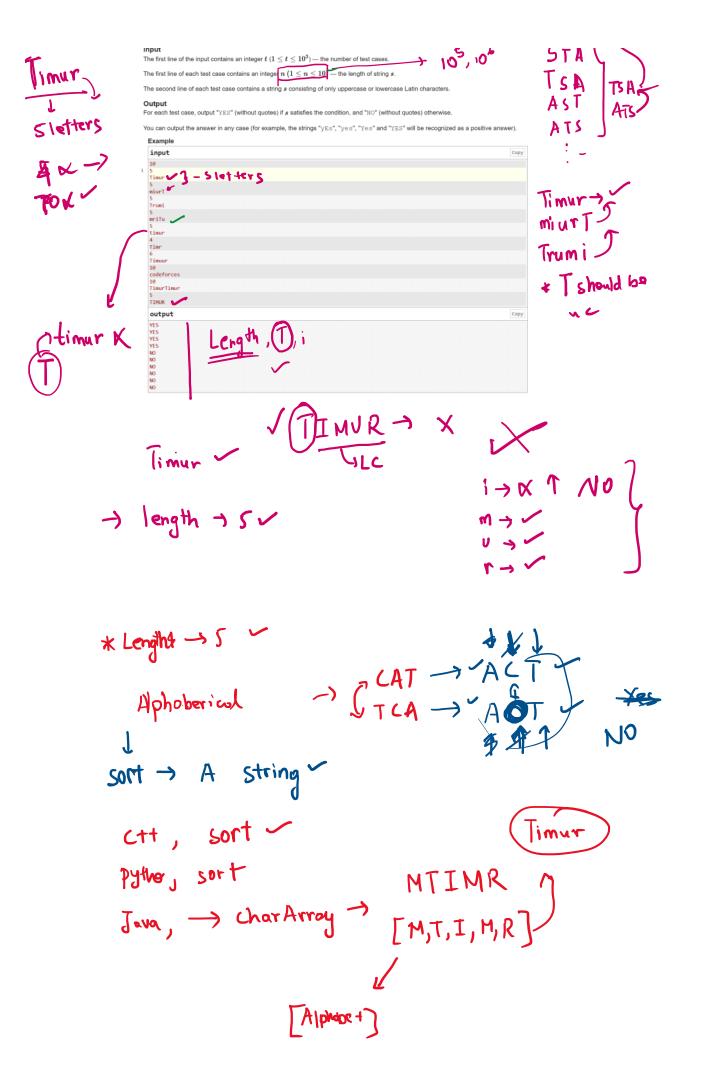
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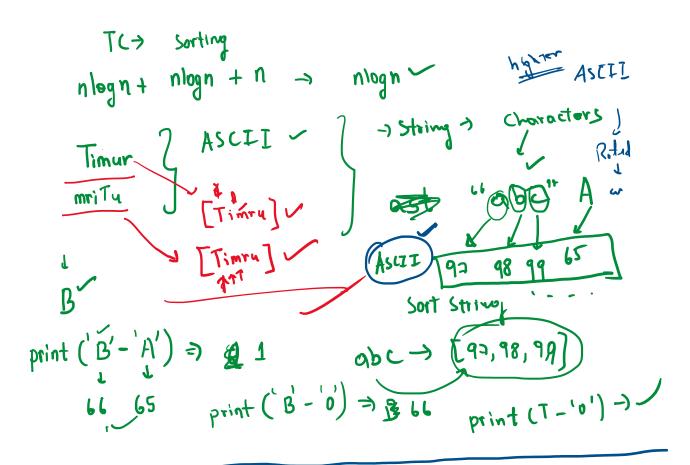


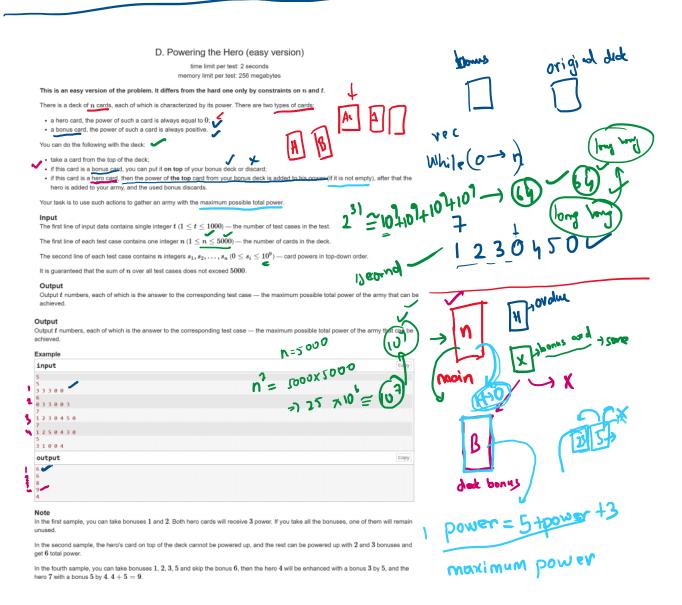


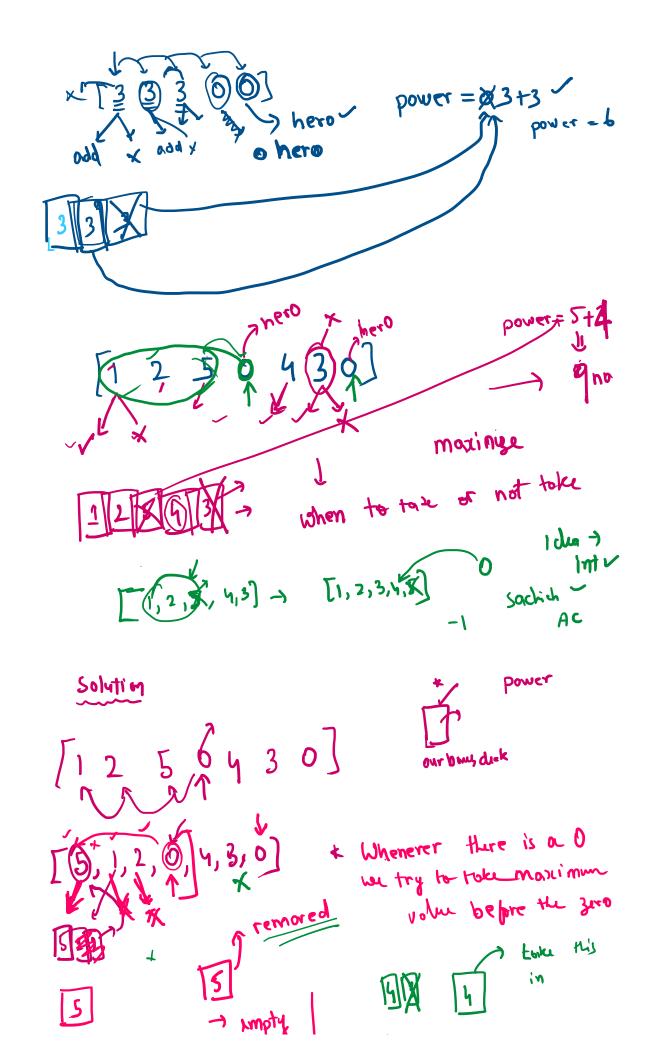
Input The first line of the input contains an integer t $(1 \le t \le 10^3)$ — the number of test cases The first line of each test case contains an intege n ($1 \le n \le 10$ — the length of string s.

The second line of each test case contains a string s consisting of only uppercase or lowercase Latin characters

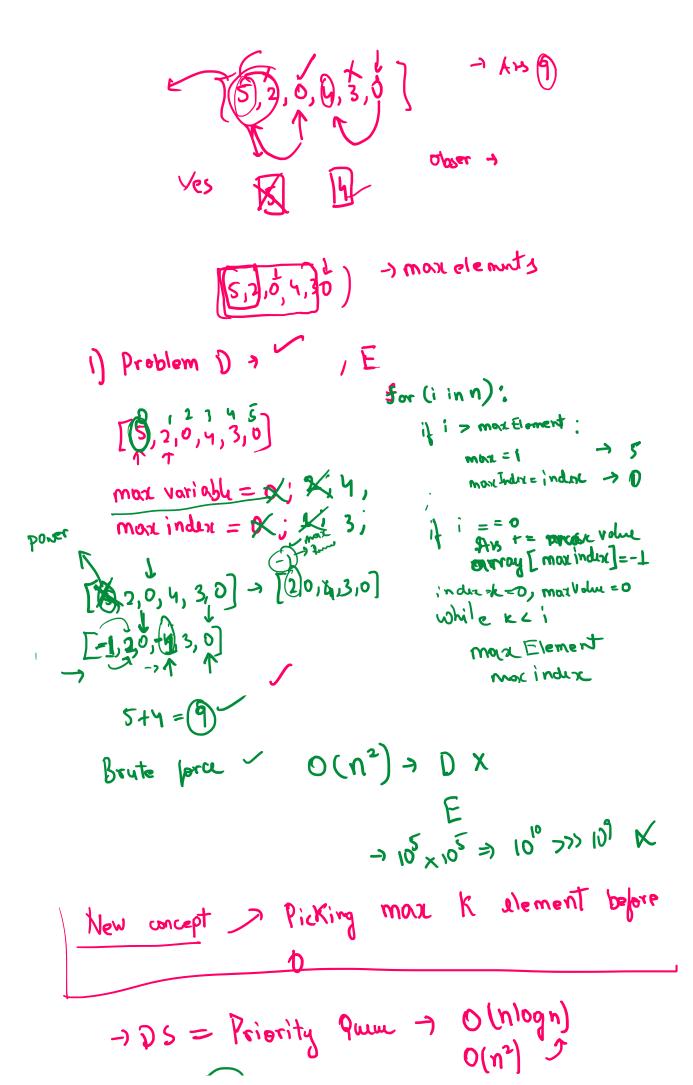




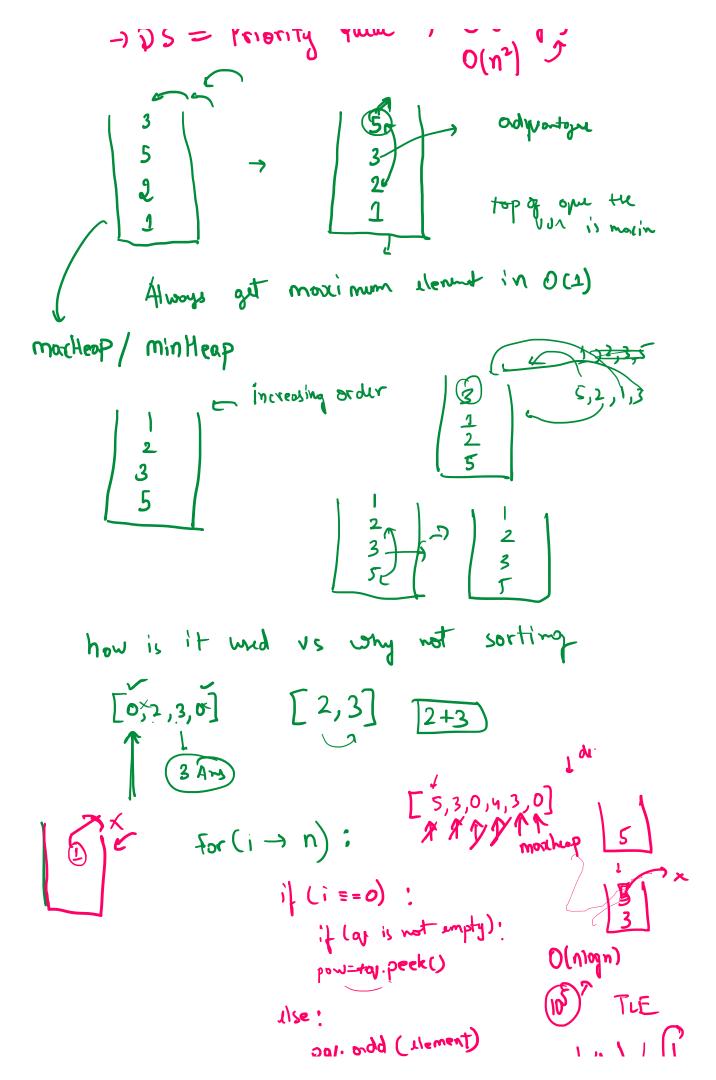




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