

## A. Generous Kefa

time limit per test: 2 seconds

memory limit per test: 256 megabytes

input: standard input

output: standard output

One day Kefa found  $n$  balloons. For convenience, we denote color of  $i$ -th baloon as  $s_i$  — lowercase letter of the Latin alphabet. Also Kefa has  $k$  friends. Friend will be upset, if he get two balloons of the same color. Kefa want to give out **all** balloons to his friends. Help Kefa to find out, can he give out all his balloons, such that no one of his friends will be upset — print «YES», if he can, and «NO», otherwise. Note, that Kefa's friend will not upset, if he doesn't get balloons at all.

### Input

The first line contains two integers  $n$  and  $k$  ( $1 \leq n, k \leq 100$ ) — the number of balloons and friends.

Next line contains string  $s$  — colors of balloons.

### Output

Answer to the task — «YES» or «NO» in a single line.

You can choose the case (lower or upper) for each letter arbitrary.

### Examples

input
4 2 aabb
output
YES

input
6 3 aacaab
output
NO

### Note

In the first sample Kefa can give 1-st and 3-rd baloon to the first friend, and 2-nd and 4-th to the second.

In the second sample Kefa needs to give to all his friends balloons of color a, but one baloon will stay, thats why answer is «NO».