# Problem A: Stones game

Time limit: 1s; Memory limit: 256 MB

Quyen and Thang are close friends and always invent new crazy games to play together since they were little kids. On the last super sale day on September 9th, Quyen accidentally decided to buy a large number of stones (with 2 colors: `black` and `white`). She said 'thanks for selling cheap' but honestly, she has no idea what to do with those useless stones.

Finally, as always, she came up with a new game with surprisingly unguessable rule. She will randomly arrange $n$ stones in a row. Quyen and Thang can take 1 stone in his/her turn and only stones from left or right ends could be selected, and removed from the row. The person collected $k$ `black` stone first will lose the game.

You are given 2 number $n$ and $k$, and a string $s$ (with $n$ characters) illustrated the order of the stone row.

Suppose both players play optimally, whether or not, Quyen could win game she invented? If Quyen can win, return "YES", otherwise return "NO" (without quote)

Besides, Quyen always plays first because Thang is a gentleman.

## Input

The first line contains 2 integers $n$ and $k$. ($1 \leq k < n \leq 300$)

The second line is the string $s$ representing the stone row. $s$ only contains character 'B' and 'W' (which denotes black and white stone).

It is guaranteed that there is no tie, the winner can always be determined. Mathematically, the number of B (black stone) will be at least $2k + 1$.

## Output

Return 1 line with "YES" or "NO" response depicted that Quyen could be the winner or not.

## Sample

| Input | Output |
|---|---|
| 4 1<br>BBBW | YES |
| 8 2<br>WBBWBBWB | NO |

## Explanation:

## For sample 1:

- First player always selects `white` stone from the right end, thus the 2nd player just can take `black` from the remaining piles.

## For sample 2:

The players will follow the below steps:

- Quyen takes first `white` stone from left side
- Thang selects the 2nd `black` stone from left side
- Quyen continues to take `black` stone (the same result from both sides)
- Thang takes the `white` stone
- At this time, Quyen has to take the `black` stone (from both ends) and lose the game.