

B. Sea and Islands

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

A map of some object is a rectangular field consisting of n rows and n columns. Each cell is initially occupied by the sea but you can cover some cells of the map with sand so that exactly k islands appear on the map. We will call a set of sand cells to be **island** if it is possible to get from each of them to each of them by moving only through sand cells and by moving from a cell only to a side-adjacent cell. The cells are called to be side-adjacent if they share a vertical or horizontal side. It is easy to see that islands do not share cells (otherwise they together form a bigger island).

Find a way to cover some cells with sand so that exactly k islands appear on the $n \times n$ map, or determine that no such way exists.

Input

The single line contains two positive integers n, k ($1 \leq n \leq 100, 0 \leq k \leq n^2$) — the size of the map and the number of islands you should form.

Output

If the answer doesn't exist, print "NO" (without the quotes) in a single line.

Otherwise, print "YES" in the first line. In the next n lines print the description of the map. Each of the lines of the description must consist only of characters 'S' and 'L', where 'S' is a cell that is occupied by the sea and 'L' is the cell covered with sand. The length of each line of the description must equal n .

If there are multiple answers, you may print any of them.

You **should not** maximize the sizes of islands.

Examples

input
5 2
output
YES SSSSS LLLLL SSSSS LLLLL SSSSS
input
5 25
output
NO

Codeforces Round #302 (Div. 2)

Finished

→ Virtual participation

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Start virtual contest

→ Problem tags

constructive algorithms implementation

No tag edit access

→ Contest materials

- Announcement 
- Tutorial 