



HOME CONTESTS GYM PROBLEMSET GROUPS RATING API CANADA CUP 🛣 SECTIONS

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

B. Painting Pebbles

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

There are n piles of pebbles on the table, the i-th pile contains a_i pebbles. Your task is to paint each pebble using one of the k given colors so that for each color c and any two piles i and j the difference between the number of pebbles of color c in pile i and number of pebbles of color c in pile i is at most one.

In other words, let's say that $b_{i, c}$ is the number of pebbles of color c in the i-th pile. Then for any $1 \le c \le k$, $1 \le i, j \le n$ the following condition must be satisfied $|b_{i, c} - b_{j, c}| \le 1$. It isn't necessary to use all k colors: if color c hasn't been used in pile i, then $b_{i, c}$ is considered to be zero.

Input

The first line of the input contains positive integers n and k ($1 \le n$, $k \le 100$), separated by a space — the number of piles and the number of colors respectively.

The second line contains n positive integers $a_1, a_2, ..., a_n$ ($1 \le a_i \le 100$) denoting number of pebbles in each of the piles.

Output

If there is no way to paint the pebbles satisfying the given condition, output "NO" (without quotes) .

Otherwise in the first line output "YES" (without quotes). Then n lines should follow, the i-th of them should contain a_i space-separated integers. j-th $(1 \le j \le a_i)$ of these integers should be equal to the color of the j-th pebble in the i-th pile. If there are several possible answers, you may output any of them.

Examples

input			
4 4 1 2 3 4			
output			
YES 1			
14 124 1234			
1234			

input	
52 32413	
output	
NO	

input		
54 32435		
output		
YES 123 13 1234 134 11234		

Codeforces Round #289 (Div. 2, ACM ICPC Rules)

Finished

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-IOPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest



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→ Contest materials

- Announcement
- Tutorial

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Desktop version, switch to mobile version.