时间限制: C/C++/Rust/Pascal 2秒,其他语言4秒

空间限制: C/C++/Rust/Pascal 1024 M, 其他语言2048 M

Special Judge, 64bit IO Format: %Ild

## 题目描述 🔀

Given a positive integer  $N \leq 10^9$ , please construct a matrix  $A=(a_{i,j})_{1\leq i,j\leq n}$  that contains only 0s and 1s, satisfying

- 1. 1 < n < 200;
- 2.  $\det(A) = N$ .

It is guaranteed that there exists a valid solution under the problem constraints.

## 输入描述:

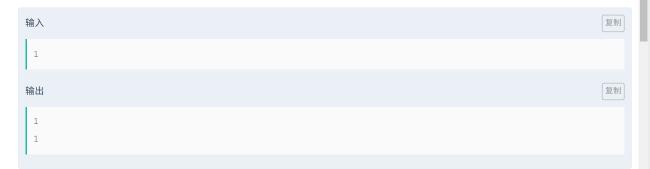
The input contains only one positive integer N  $(1 \leq N \leq 10^9)$  .

#### 输出描述:

The output should contain a first line with a positive integer n  $(1 \le n \le 200)$ , indicating the size of the constructed matrix.

Next, output n lines, where the i-th line contains n integers  $a_{i,1}, a_{i,2}, \ldots, a_{i,n}$   $(a_{i,j} \in \{0,1\})$ , representing the elements of the i-th row of the matrix. If there are multiple solutions, any one of them can be output.

## 示例1



# 示例2

① C++ (clang++18) 1 ACM模

请通过 入输出 出描述:

自测報