



Hack It

Time Limit: 2000/1000 MS (Java/Others) Memory Limit: 32768/32768 K (Java/Others)

Total Submission(s): 0 Accepted Submission(s): 0

Special Judge

Problem Description

Tonyfang is a clever student. The teacher is teaching he and other students "bao'sou".

The teacher drew an $n*n$ matrix with zero or one filled in every grid, he wanted to judge if there is a rectangle with 1 filled in each of 4 corners.

He wrote the following pseudocode and claim it runs in $O(n^2)$:

```
let count be a 2d array filled with 0s
iterate through all 1s in the matrix:
    suppose this 1 lies in grid(x,y)
    iterate every row r:
        if grid(r,y)=1:
            ++count[min(r,x)][max(r,x)]
            if count[min(r,x)][max(r,x)]>1:
                claim there is a rectangle satisfying the condition
claim there isn't any rectangle satisfying the condition
```

As a clever student, Tonyfang found the complexity is obviously wrong. But he is too lazy to generate datas, so now it's your turn.

Please hack the above code with an $n*n$ matrix filled with zero or one without any rectangle with 1 filled in all 4 corners.

Your constructed matrix should satisfy $1 \leq n \leq 2000$ and number of 1s not less than 85000.

Input

Nothing.

Output

The first line should be one positive integer n where $1 \leq n \leq 2000$.

n lines following, each line contains only a string of length n consisted of zero and one.

Sample Input

(nothing here)

Sample Output

```
3
010
000
000
(Obviously it's not a correct output, it's just used for showing output format)
```

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Hangzhou Dianzi University Online Judge 3.0
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