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Triangle LOVE

Time Limit: 2000/1000 MS (Java/Others) Memory Limit: 65536/65536 K (Java/Others)
Total Submission(s): 5883 Accepted Submission(s): 2228

Problem Description

Recently, scientists find that there is love between any of two people. For example, between A and B, if A don't love B, then B must love A, vice versa. And there is no possibility that two people love each other, what a crazy world!
Now, scientists want to know whether or not there is a "Triangle Love" among N people. "Triangle Love" means that among any three people (A,B and C) , A loves B, B loves C and C loves A.
Your problem is writing a program to read the relationship among N people firstly, and return whether or not there is a "Triangle Love".

Input

The first line contains a single integer t (1 <= t <= 15), the number of test cases.
For each case, the first line contains one integer N (0 < N <= 2000).
In the next N lines contain the adjacency matrix A of the relationship (without spaces). $A_{i,j} = 1$ means i-th people loves j-th people, otherwise $A_{i,j} = 0$.
It is guaranteed that the given relationship is a tournament, that is, $A_{i,i} = 0$, $A_{i,j} \neq A_{j,i}$ (1 <= i, j <= n, i < j).

Output

For each case, output the case number as shown and then print "Yes", if there is a "Triangle Love" among these N people, otherwise print "No".
Take the sample output for more details.

Sample Input

```
2
5
00100
10000
01001
11101
11000
5
01111
00000
01000
01100
01110
```

Sample Output

```
Case #1: Yes
Case #2: No
```

Author

BJTU

Source

2012 Multi-University Training Contest 3

Recommend

zhoujiaqi2010

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Hangzhou Dianzi University Online Judge 3.0
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Designer & Developer : Wang Rongtao LinLe GaoJie GanLu
Total 0.000000(s) query 1, Server time : 2019-07-17 19:50:34, Gzip enabled

Administration