Question: [D.A.G Judgement]

Content:

In common cases, there will be rings in a graph. Some algorithm is fast but not suitable for graph containing a ring. Please write a program to verify whether a ring exists in a graph.

Input:

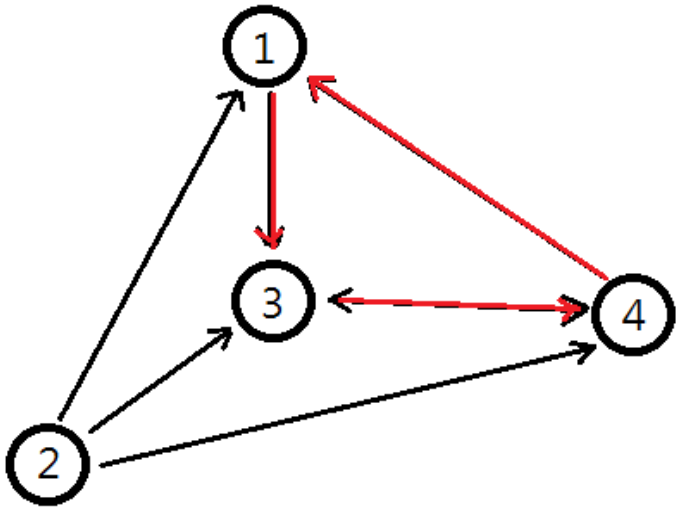
1. The first line has an integer (≦100) for how many sets of the input is going to have.
2. The second line has an integer **m** (≦100) represents number of points.
3. And the following is a m * m directed graph.
   For instance, A[I, j] = 1 means there is a road **from i to j**, otherwise 0 means there is no road form i to j.
4. Each number has to be separated by a space.
5. Integer -1 is going to be input in a new line after the input of a set is finished.

Output:

1. If there is a ring, please print “Yes”.
2. Else, please print “No”.
3. Each answer must be output in the different line.

Sample Input:

```
2
4
0 0 1 0
1 0 1 1
0 0 0 1
1 0 1 0
-1
4
0 0 1 0
1 0 1 1
0 0 0 0
1 0 1 0
-1
```



Sample Output:

```
Yes
No
```