

Graph Contest 2 P2 - Directed Acyclic Graph

Time limit: 1.0s **Memory limit:** 16M

Given a directed graph, output YES if it is acyclic, and NO otherwise.

Input Specification

$N \leq 1\,000$, the number of vertices.

An adjacency matrix, N rows with N numbers (0 or 1).

Output Specification

YES or NO .

Sample Input 1

```
3
0 1 0
0 0 1
1 0 0
```

Sample Output 1

```
NO
```

Sample Input 2

```
3
0 1 0
0 0 1
0 0 0
```

Sample Output 2

YES