

January 2023 CSE 208

Online: All Pair Shortest Path

Time: 30 minutes

Subsections: B2

Given a graph, you have to find whether there is a negative cycle in the graph or not.

Input/Output Format

The first line of the input file will contain the number of vertices $0 < n < 100$ and the number of edges m (≤ 10000) followed by m lines, each containing origin u , end v , and weight w (≤ 100000) of an edge of the directed graph

For an input set, print whether there exists a negative cycle or not, "Yes or No."

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|---|----------------|
| Input: 4 6 1 2 8 1 4 1 2 3 1 3 1 4 4 2 2 4 3 9 | Output: No |
| Input: 4 4 0 1 1 1 2 -1 2 3 -1 3 0 -1 | Output: Yes |