

2242. Maximum Score of a Node Sequence

Description

There is an **undirected** graph with `n` nodes, numbered from `0` to `n - 1`.

You are given a **0-indexed** integer array `scores` of length `n` where `scores[i]` denotes the score of node `i`. You are also given a 2D integer array `edges` where `edges[i] = [ai, bi]` denotes that there exists an **undirected** edge connecting nodes `ai` and `bi`.

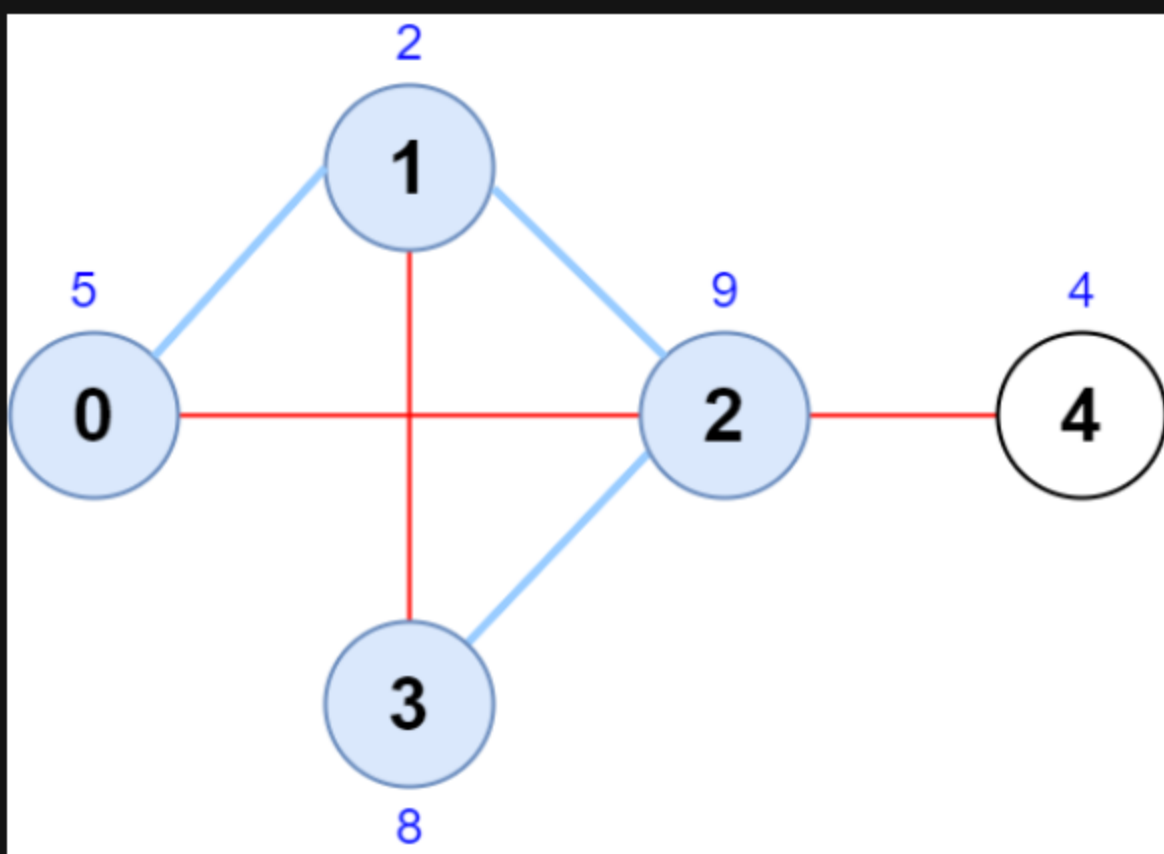
A node sequence is **valid** if it meets the following conditions:

- There is an edge connecting every pair of **adjacent** nodes in the sequence.
- No node appears more than once in the sequence.

The score of a node sequence is defined as the **sum** of the scores of the nodes in the sequence.

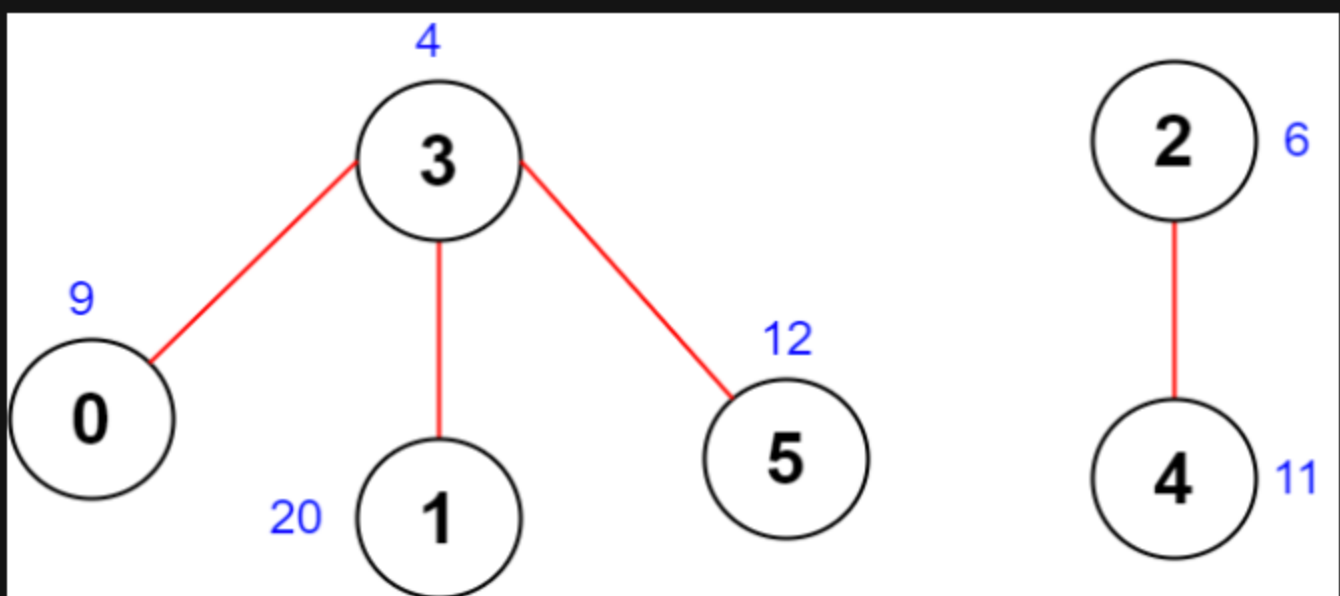
Return *the maximum score of a valid node sequence with a length of 4*. If no such sequence exists, return `-1`.

Example 1:



Input: `scores = [5,2,9,8,4]`, `edges = [[0,1],[1,2],[2,3],[0,2],[1,3],[2,4]]`
Output: `24`
Explanation: The figure above shows the graph and the chosen node sequence `[0,1,2,3]`.
The score of the node sequence is `5 + 2 + 9 + 8 = 24`.
It can be shown that no other node sequence has a score of more than 24.
Note that the sequences `[3,1,2,0]` and `[1,0,2,3]` are also valid and have a score of 24.
The sequence `[0,3,2,4]` is not valid since no edge connects nodes 0 and 3.

Example 2:



Input: `scores = [9,20,6,4,11,12]`, `edges = [[0,3],[5,3],[2,4],[1,3]]`
Output: `-1`
Explanation: The figure above shows the graph.
There are no valid node sequences of length 4, so we return `-1`.

Constraints:

- `n == scores.length`
- `4 <= n <= 5 * 104`
- `1 <= scores[i] <= 108`
- `0 <= edges.length <= 5 * 104`
- `edges[i].length == 2`
- `0 <= ai, bi <= n - 1`
- `ai != bi`
- There are no duplicate edges.

