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6063. Maximum Score of a Node Sequence

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

You are given a **O-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] = $[a_i, b_i]$ denotes that there exists an **undirected** edge connecting nodes a_i and b_i .

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

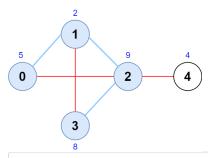
- There is an edge connecting every pair of adjacent nodes in the sequence.
- No node appears more than once in the sequence.

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.

User Accepted: 0 User Tried: 0 Total Accepted: 0 Total Submissions: 0 Difficulty: Hard

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].

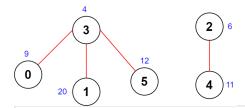
The score of the node sequence is 5 + 2 + 9 + 8 = 24.

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
- $4 \le n \le 5 * 10^4$
- 1 <= scores[i] <= 10^8
- 0 <= edges.length <= 5 * 10⁴
- edges[i].length == 2
- 0 <= a_i , b_i <= n-1
- a_i != b_i
- There are no duplicate edges.

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