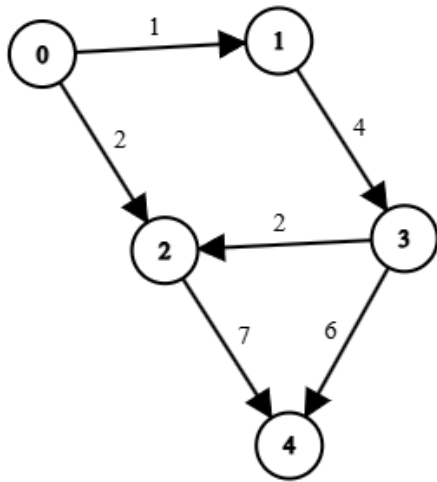


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Question 1 [15 Points]



Sample Input	5, graph	Number of Vertices, The Graph
Sample Output	1,	Answer Vertex Index. This Vertex 1 has the lowest Outgoing edges , and for the same reason, Vertex 2 can also be the answer .
	[4]	Array of Outgoing edges. Here, outgoing edge 4<5 which is why the Array has 4 weight. As vertex 2 can also be the answer the resulting array for that case would be [0] because 7!<5 so the weight cannot be added to the array.

For this **directed, edge-weighted** graph implemented using an **adjacency list**, find the vertex with the least amount of **outgoing edges**. The vertex must have **at least 1** outgoing edge; otherwise, **return -1** (for Java an Empty array). After finding the vertex, **return** an array of all the **outgoing edges** from that vertex that weigh **less than 5**.

[Assume **Node** and **Graph** classes have been **implemented** but, you **cannot** use **Adjacency Matrix**]