

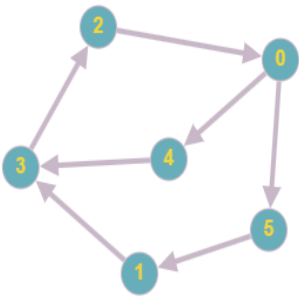
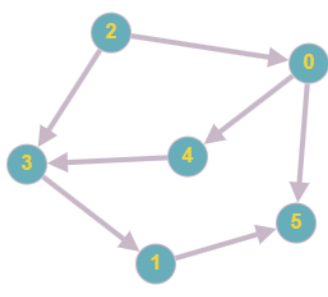
Name:

ID:

Section:

question 1 [15 Points]

You need to write a function called **reverseEdge()**. That takes a **directed graph** represented as an adjacency matrix in its parameter. Your task is to reverse all the outgoing connections from the **odd** vertices in the graph and return the matrix.

Sample Given Adjacency Matrix		Sample Output Adjacency Matrix	
	<pre>0, 0, 0, 0, 1, 1, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 0,</pre>		<pre>0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 1, 1, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0,</pre>
Sample Function Call			
reverseEdge(graph)			

Explanation: Each row in the adjacency matrix represents a Vertex, and the columns represent other Vertices where the outgoing connection is made. For example, in the sample input, the 1th row (0 0 0 1 0 0) means there is an outgoing edge from Vertex 1 to Vertex 3. After reversing the connection the outgoing edge would be going from Vertex 3 to Vertex 1. This is seen in the Row 3 (0 1 0 0 0 0) of the sample output. Moreover, the 3th row (0 0 1 0 0 0) means there is an outgoing edge from Vertex 3 to Vertex 2. After reversing the connection the outgoing edge would be going from Vertex 2 to Vertex 3. This is seen in the Row 2 (1 0 0 1 0 0) of the sample output. This reversing is only applicable for the **odd** vertices like 1,3,5.