Borale Baralay 5,) 1. 20,10,16,40,30,27,80,50 2. 10,16,20,27,30,40,50,80 3. 16,10,27,30,50,40,20 Barale Barclay

9.) I. Input. A vertex in a graph 2. Ensure the vertex exists. If the does not exist, got to step 7, else go to step 3,

3. Check if the vertex has an edge. If the vertex has an edge, To to step 4, else go to step 5.

He p 5. edge to a neighbors vector, and seturn to step 3 (excluding already checked edges.) 5. Return the neighbors vectors to the user. Go to step 6.
6. Stop the algorithm.
7. Inform the user that the vertex does not exist, and Exit the algorithm with an error.

Barak Batclay

10.) 1. Input: A vertex. 2. Ensure the vertex exists in the graph. If the vertex does not exist, go to step, else go to step, also go to step. the Stand Search the edges of the graph. If there is on edge from the current vertex to the inputted vertex, or vice versa yo to step 4. Once the search is complete go to step 5.

H. Remove the edge. Go back to Step 3. 5. Remove the vertex. 60 to step 6. Stop the algorithm.
7. Inform the aber that the vertex does not exist, and exit the algorithm with an error.

Barak Barclay

Barak Barclay II.) I. Traverse the array starting with the begining index. If there is a vertex go to step 2, else to step 3. If there is an edge from the vertex at that index to another vertex, set the weight of the edge the to the respective index in the physical adjacency matrix. Go back to step 1.

3. Return the adjacency matrix the form the adjacency matrix.

4M to the user. Go to step 4.

4. Stop the algoritm.