United International University DSA-1 Lab Final

V

Section C - Total marks: 10 + 10

1. You are given a string S consisting of lowercase English letters. You need to determine whether or not it's possible to rearrange the letters of S in such a way that it forms a palindrome. A palindrome is a word that is spelled the same way forwards and backwards. For example, "racecar" is a palindrome.

Sample Input	Sample Output
helloleh	Not palindrome
racecar	Palindrome

 You are given a directed graph G represented as an adjacency list and two vertices, start and end. Your task is to find whether there exists a path from start to end using either BFS or DFS.

The first line of the input will be two integers **n** and **m** representing the number of vertices and edges of the graph respectively. The following **m** lines will represent the **m** directed edges. After that, the next line will contain two integers **p** and **q** representing the start and the end vertex for which you will find a path. The last line will contain the word "BFS" or "DFS" to determine which algorithm you are going to use for finding the path.

Sample Output
True
// No need to output these Explanation: Because there exists a
path from 0 to 4. Path: 0 -> 1 -> 2 -> 3 -> 4

