Birla Institute of Technology and Science-Pilani, Hyderabad Campus First Semester 2020-2021

Lab Sheet-14

CS G526: Advanced Algorithms and Complexity
Date: 03/02/21

General Instructions: Argue logically. Write it in a manner that explains your logic very clearly. Do not miss steps in between.

Problem-1: [50 pts] Suppose you are given a matrix where every cell contains a letter. Your goal is to find the longest path of consecutive letters in this matrix starting with "B". Return the length (number of alphabets in the path) of the longest path.

of alphabets in the path) of the longest path.
Transition Rule:
You can move from one cell to the another cell adjacent to it vertically/horizontally/diagonally.
Example:
Input:
IBC HED GFK
Output: 8
Evalenation