Make-up Homework Algorithms

Due May 3, 2019

- 1. Give an example where the addition of an edge changes the number of connected components of a Graph.
- 2. The depth-first forest classifies the edges of a graph into tree, back, forward, and cross edges. Give an example of tree and cross edges. Show that in a breadth first search of a directed graph, there are neither back edges nor forward edges.