CS113/DISCRETE MATHEMATICS-SPRING 2024

Worksheet 26

Topic: Euler Path And Circuits

Now, that we have covered Graph connectivity in last class, we shall move on to different types of circuits and paths.Today, we will explore Euler paths which allow us to navigate from one vertex to another, covering every edge exactly once as well as Euler circuits which take us on a journey where we start and end at the same vertex, visiting each edge only once. Happy Learning!

Student's Name and ID: _____

Instructor's name: _____

1. For the given parts, determine whether the given graph has an Euler circuit. Construct such a circuit when one exists. If no Euler circuit exists, determine whether the graph has an Euler path and construct such a path if one exists.

(a)

(b)

(c)

(d)