CS/DSA ALGORITHM ANALYSIS

Homework 9, Practice Problems

1. Define the following classes of problems

P - class

NP - class

NP - C class

NP - Hard class

Prove an example from each class.

2. Define Hamilton Cycle, Travelling Sales Person.

Read and understand the algorithm for finding the cost of an approximate tour.

Prove that the cost of the approximate tour is no more than twice that of the

optimal tour.