Problem Set 6

Questions to test understanding of P/NP problems.



Can optimization problems be in NP?

Travelling salesman problem is defined as a salesman planning to visit a bunch of cities to sell his merchandise. The salesman wants to cut costs and needs to follow a route which allows him to visit every city but at the same time is the shortest route among all possible routes. Is this problem in NP-complete?

4	If P=NP is proven, will integer factorization be still in complexity class NP-intermediate?
5	NP-complete problems can't be solved at all?
	Check Answers