

Some New Problems

Here are some new problems. Are they in NP?

If they're in NP, what is the "certificate" when the answer is yes?

COMPOSITE – given an integer n is it composite (i.e. not prime)?

MAX-FLOW – find a maximum flow in a graph.

VERTEX-COVER – given a graph G and an integer k , does G have a vertex cover of size at most k ?

NON-3-Color – given a graph G , is it not 3-colorable?