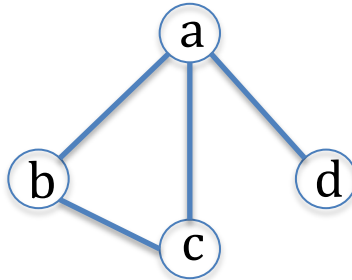


Written Assignment 4 cs320 Spring 2018

name:

id:

Consider the Independent Set Problem with $k=2$ for the following graph G :



a. Determine the independent sets of size 2 of G .

b. Construct a circuit K whose inputs can be set so that K outputs true iff graph G has an independent set of size ≥ 2 .