

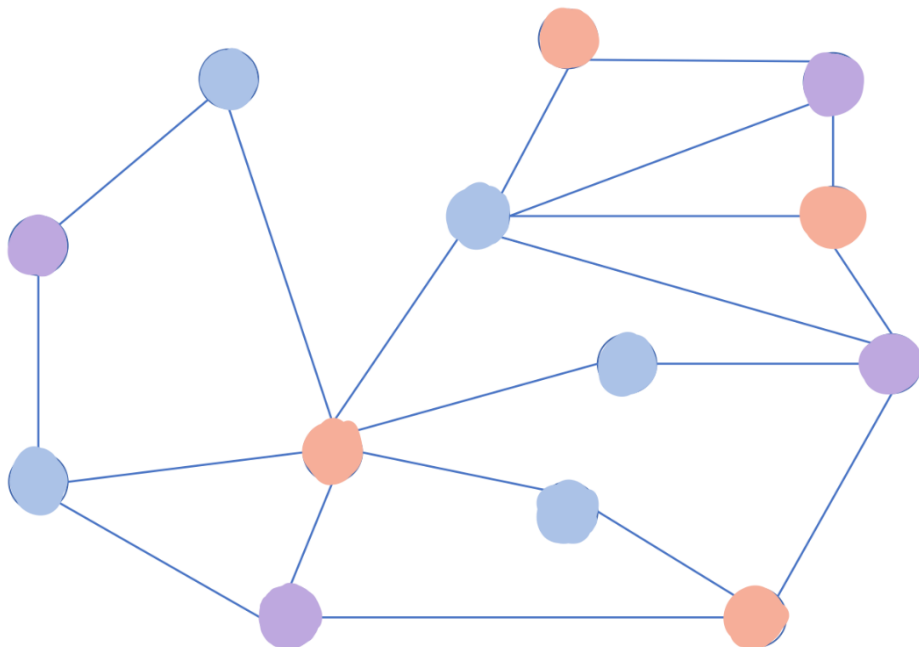
COMP1002 Assignment 3

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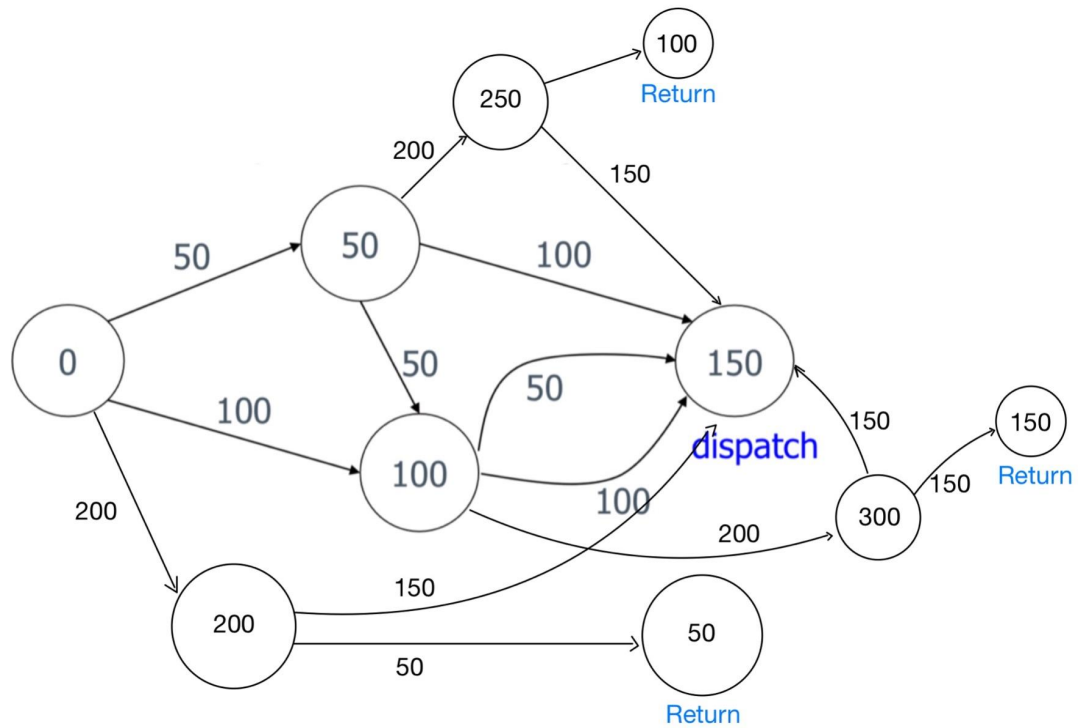
Q1

It is possible. This can be done by assigning every node a different color. Alternatively, the minimum number of colors you would need to make sure none of the neighboring nodes have the same color as a given node is 3. An example of this arrangement is:



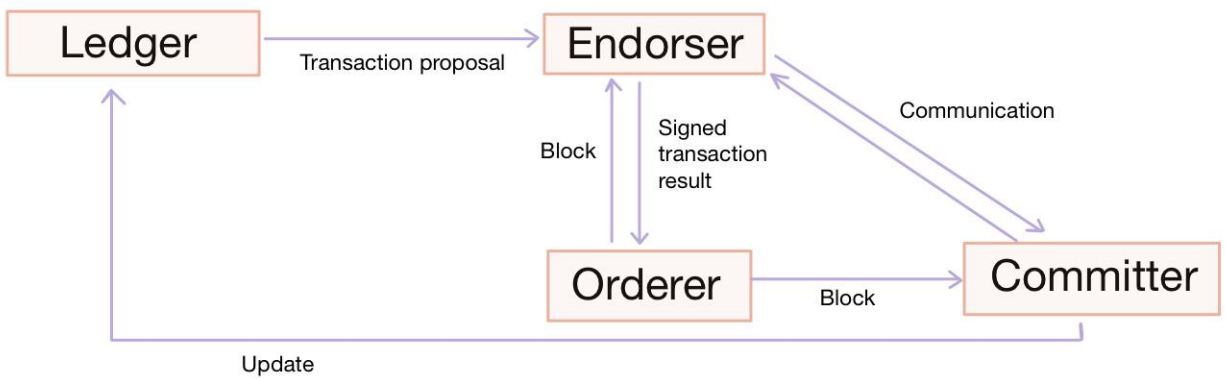
This arrangement works as none of the neighboring nodes share the same color. We can achieve this by trial and error with different numbers of node colors and different arrangements.

Q2



Q3

a)



b)

