

Algorithms and data Structures

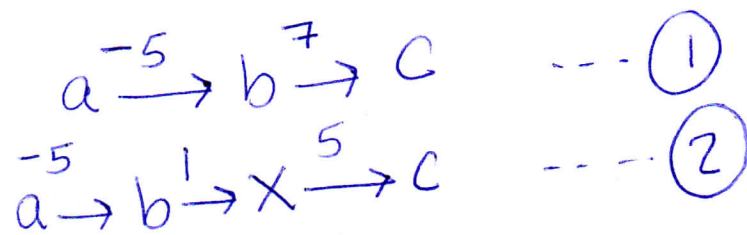
Homework 11

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Problem 1: Shortest Path

This might work for many cases, however it doesn't work for all cases:

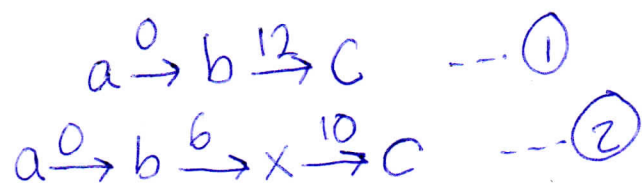
Consider this



In this case ~~the algorithm~~ would choose $\textcircled{2}$

as the final weight is 1.

Now if we add a constant of 5



The Shortest path have changed now from $\textcircled{2}$ to $\textcircled{1}$

Therefore this approach is not correct.