Jerry Olds

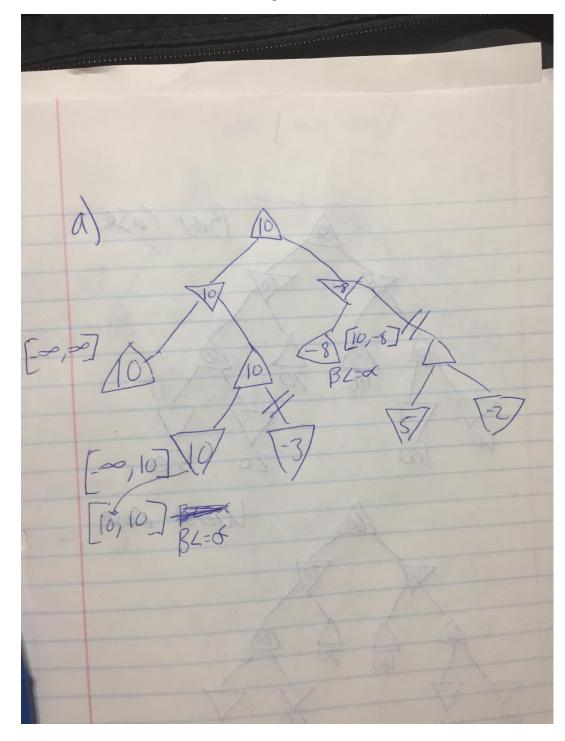
10015336643

CSE-4308-002

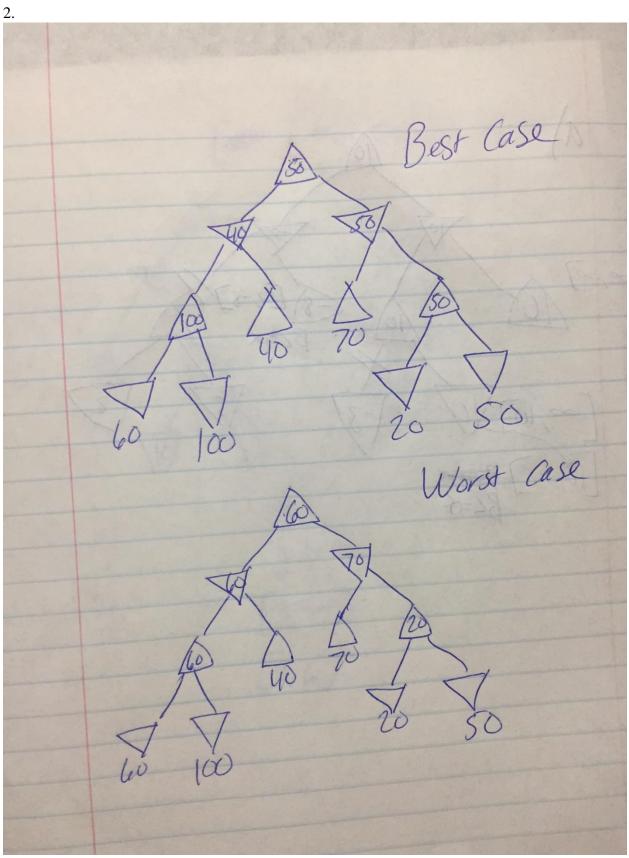
7/22/2019

Assignment 2

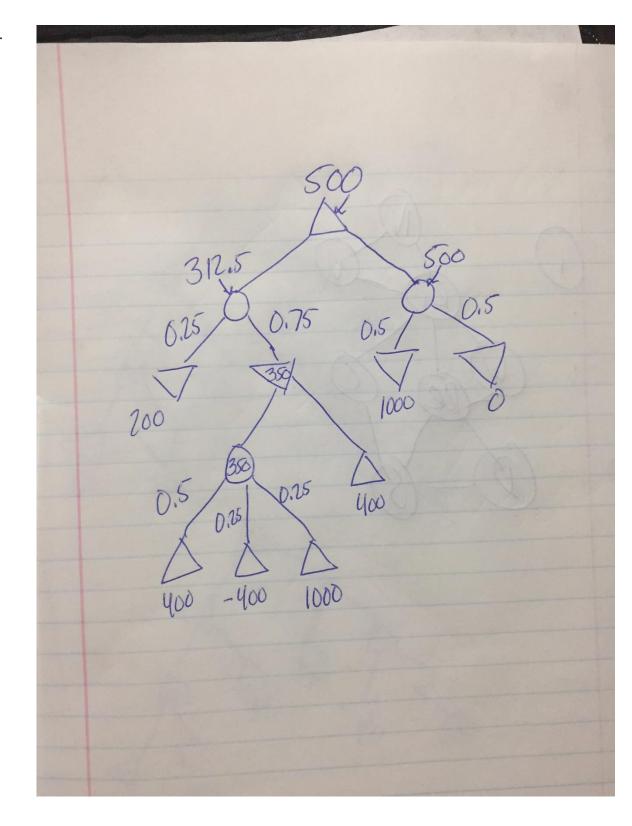
1. a)



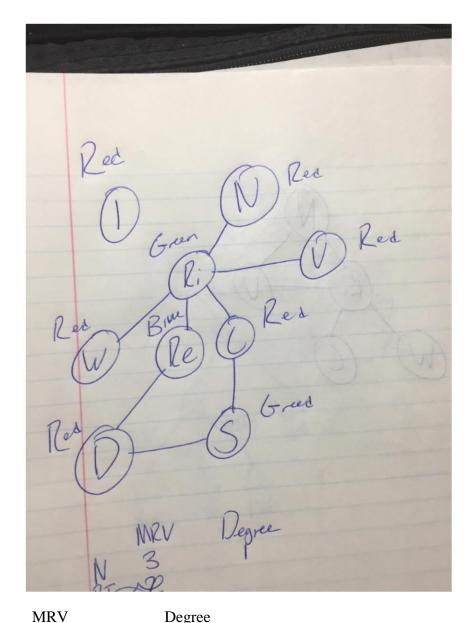
b) If 10 was the maximum value, the whole right side of the tree would not be explored.		



3.



Max: 1000 Min: 200



	IVIK V	Degree
N	3	1
RI	2	2
Re	1	3
V	2	2
W	2	3
C	2	3
S	1	4
D	1	4
I	3	1

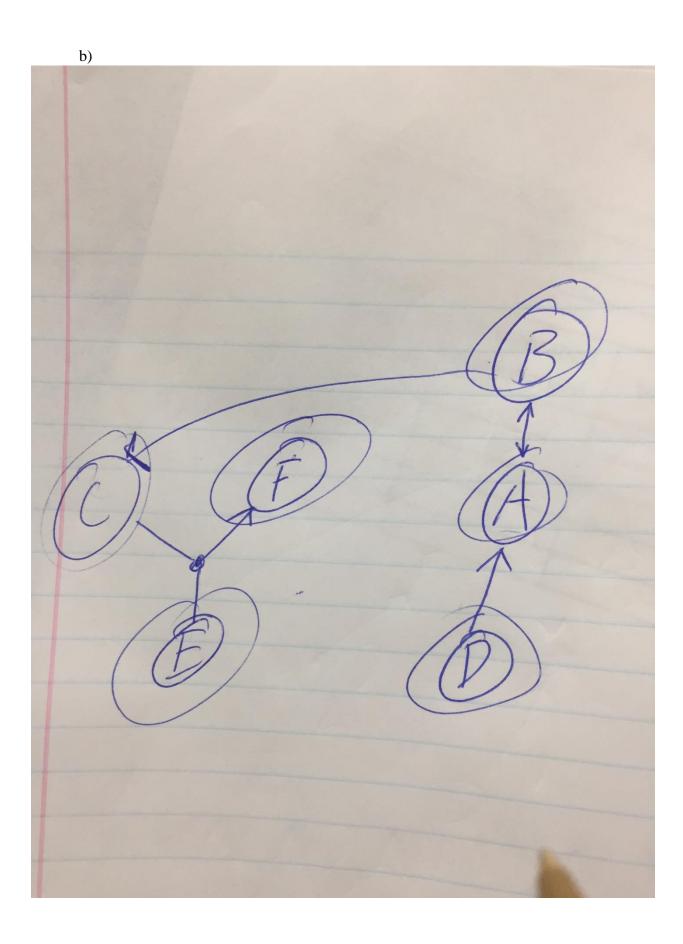
5.

So KB does not entail S1

b) A = True, B = True, C = False, KB =
$$\neg$$
(False) = True, S1 = \neg (True) = False NOT(KB) does not entail NOT(S1)

6.

$$(A \land \neg B \land \neg C \land \neg D) \land (\neg A \land B \land \neg C \land D)$$



(A=7B)1(B=7A) (!A UB) 1(!BVA) 1 (!DUA) 1(!(ELE) VF) NEAR (!A VB) 1(!BVA) 1(!DVA) 1(!(VE!EV)) ('AVB)1(!BVA)1(!DVA)1(!CV;EVF)1END

R(a) – Rained on a day C(b,c,a) – b gives cheque to y on day a M(b,a) – b mows lawn on day a

- a) R(May 1, 2017) -> G(John, Mary, May 2, 2017) G(John, Mary, May 2, 2017) -> M(Mary, May 3, 2017)
- b) ¬R(May 1, 2017) G(John, Mary, May 2, 2017) M(Mary, May 3, 2017)
- c) The contract was not violated, it did not rain so John did not have to give the cheque to Mary. John gave the cheque Mary anyway and Mary mowed the lawn.