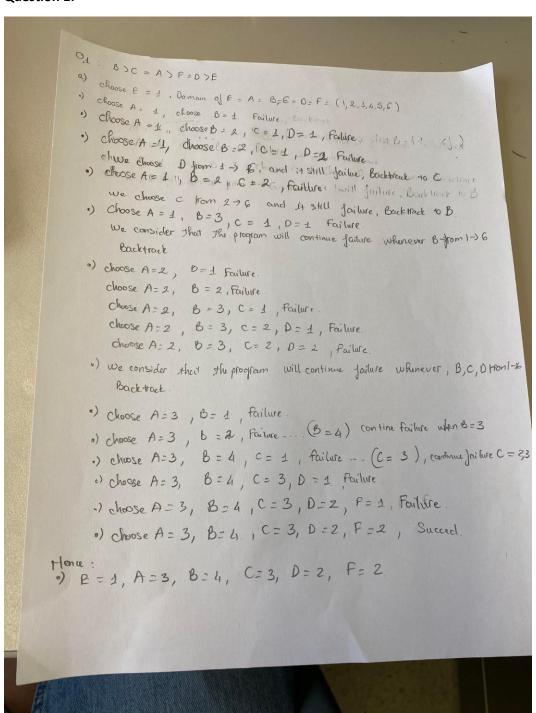
CS 4365.501

Assignment 2

Part I: Written Problems

Question 1:



b) forward checking: B>C = A>F=D>E

- ·) choose F = 1; Domain : A = B= = D = F = 12, 3, 4, 5, 6}
- 1) choose E=1; A > 2; Domain B = 1 3, 4,5,6? $C = {2}$ $D = F={1} \not O {1,4,5,6}$
- e) Choose E= 1, A= 2 cause D=F=405 failure when can not choose
- .) choose E = 1, Domain : A = 13,4,5,6} Dand "F", Backtrack!

 B = C=B=F= 12, 3,4,5,64
- e) Choose E=1, A=3, Domain. B=44,5,64 C={3} D=F={2,11
- .) choose E = 1, A=3, B=4. Domain C= \ 33

 D= F= \ 127.
- 1) choose B=1, A=3, B=4, C=3, Domain D=F=124
- o) Choose E= 1, A=3, B=4, C=3, D=2 Domain E-42?
- ·) choose B=1, A=3, B=4, C=3, D=2, F=2 (Solution)

- c) Contraint propogation: B>C = A>F=D>E Do main: A=B=C=D=B=F= 41,2,3,4,5,64
- ·) Choose = 1: Domain A=B= C=D= = = = 1 2,5,4,5,64
- choose E = 1, A=2 course in consistent.

Domain B = 43,4,5,64

D = F = 4 pg (in consistent).

remove A = 2 from Domain of A. A = 43,4,5,6 }

·) choose E=1, A=3, Domain B= 44,5,64

c = 43}

D = F = 124

By using Contraint propagation D.C.F. have 1 choose. We have conswer:

·) choose E = 1, A=3; B=4, C=3, D=2, F= 2 (Solution)

Question 2 & 3:

