SPEC-TOPS THEORY / ALGORITHMS

\$ H.W-4

UID, 1001945746 MAME: VENKATA SWANTH

where 1=1,2 money in their wallts = Si 1).

Page is combined contests of two wallets.

ie prie goes up until on quies . Say at P(prine)

Then the find biddle pays P and gets 3, + Sr

Lets say the S1+S2 = V

The equilibrium is when the bidding pines goes up but still at pune 25i

So if the opporent do o follows the same strategy, then if
the bidde who know was for p will acknowly be able to deteril the outed value

ie SI+Sz=V=SI+P/z as land P < 25; so t'll the range of 25i, i can be a winner and met have anything, on the wither hand if P is 7 25; then i would loke the money consideing the apparent also plays some Strategy, This is in unique equilibrium

9 p≥ 25i the i know that Vexued P as j's is at least P/2 so it is now 7 P/2 now i must quit as j is now quoter than P/2 which is now a loss for i.

Stockody if This symmetric equilibrium can also be explained as let say i stay witi'll I reached it si

on say n.Si while let say j quits at just 1 Si which is home than P/2 & ie (m si < P/2) In this i may win the game then Vz Si + N-1 P7P but Pensi but when juin then V=Si+P>P but PCNSi and this time when i wins he will defeately hind more many in judlet so obviously he make more mong this is an assymmetric equilibrium and usually ; im her time and finds less many so It is a loss of juhoten he choose. Thus we can undustand this widel game has many equilibrium, we can say that similar asmmon-value game have a very assymmetric aquilibria.

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EFF 62 THE BURE BY A DE SOLEMAN

ON THE WATER SURGEST

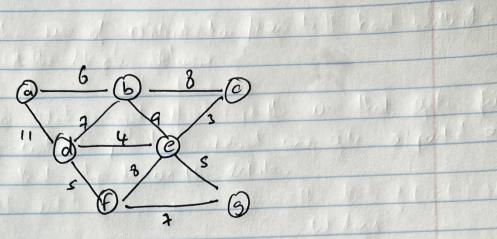
P	which we get form,	m ₂	2
10	3 3	8	24
20	6 7	7	20
30 7	6	S	16
40 3	3	4	10
1 02	3	2	7
60 0	2		2
70 0	1	0	* 1

On analying the allowater algorith for down word shoping validation

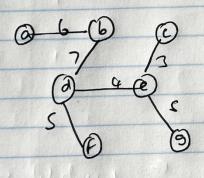
more specific than the said

E=24,20,16,10,7,7,1 fo.1×10,20,40,50,60,70

3.) lyaph!



We need to get minimum a panning time which is the shortest distance

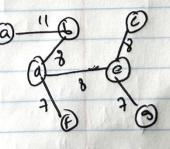


by calculating UCG payments we get

ab = 35-24 = 11 bd = 31 - 23 = 3 ce = 15-27 = 3 de = 34-26 = 8 df = 22-25 = 2 es = 12-15 = 7

So the minimum opening time with UGG is

phoply values.



four

Land 4), of Digital goods to be sold at bixed. without -> Order the bits in descending order for obtaining an optimal fixed pice. 102340867891011121314151617181920 Gos 10010 10 909 888 77 66 155 444 444 10 20 30 36 45 48 56 64 63 70 66 72 65 70 60 64 68 72 76 80 6 Revenue 120 Deterministic optimal Author (DON) is truthful, with more revenue (with appropriate "clistin button "assumption can be made). L CES & such Cu - END -11 121 14 OIP 14 1 wabitu The fact of the factor of the fact of the fortune parts of gets of august of of The state of the s