0,

(u) is wrong, It should be 30

it can be related by 18 and 12.

· 101 718 +12

:. (2) should be 30

		pro vi dence	westerly	New Landon	Norwich
	providence	0	53	54	48
	Westerly	53	д	(8	30
	New Luda	54	18	0	12
	Mornich	48	30	2	O

* fed indicated the change

6 raph_	
New London 18 westerly	
54 33	
Norwich 45	>

Q2,

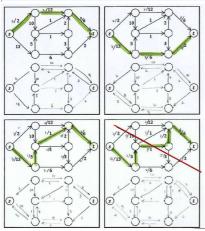
		A	В	C	D	E	F	67	H	
1	0	0	×		X	X	×	X	×	
1		0	4	7	5	X	X	X	X	
4	2	0	4	6	5	- 8	8	13	9	
	3	0	4	6	5		7		9	
	4	0	à	6	5	8	7	11	9	

03/

 $M^2(i,j)$ is the shartest path distance between i tuj consist of no move than 2 edges

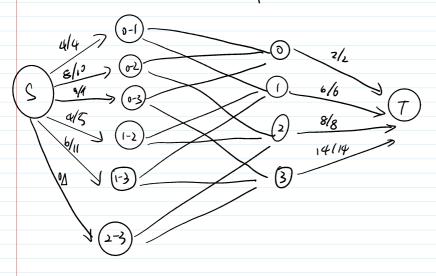
NECi,j) is the shortest path distance between ito j ansist of no move than k edges



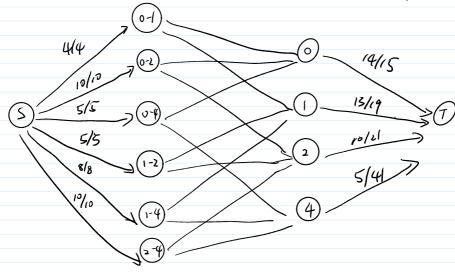


Green trace is the augment path the red line Shows the minimum cut

05) Detroits is eliminated, because all edges oncefs on not full.



Tronton is not elimate, Since all edge out of S are full.



Q6) we can use binary search.

ASSUME there are n teams, their indices are 0 to not we can calculate W: + V; for each of team; hext, we surt Wi + Vi in assending under.

thun, we use binury Search so find on integer K, such that team le it eliminated and team k+1 is not eliminated.

Note, by using binning search, we can only use log n terms of solving, so he find k.

Finally, Ul can Say team 0 to k are eliminated, ten kt/