

Warning: The hard deadline has passed. You can attempt it, but **you will not get credit for it**. You are welcome to try it as a learning exercise.

1 2 4 8 16 32 64 128 256 512

If you wish to discuss a particular question and answer in the forums, please post the entire question and answer, including the seed (which is used by the course staff to uniquely identify the question) and the explanation (which contains the correct answer).

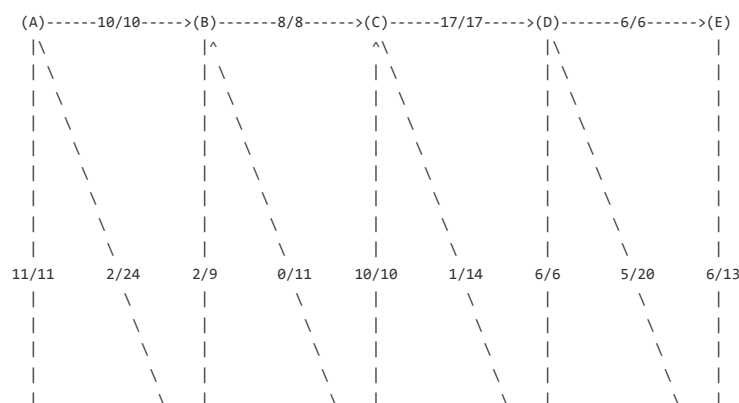
 In accordance with the Coursera Honor Code, I (Atul Gupta) certify that the answers here are my own work.

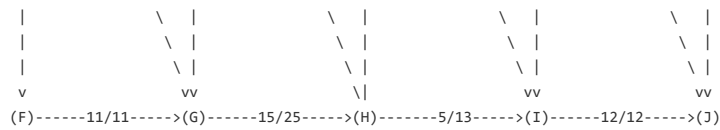
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(seed = 128390)
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Consider the flow network with 10 vertices and 17 edges:

edge	flow	/	capacity
A->B	10	/	10
A->F	11	/	11
A->G	2	/	24
H->B	0	/	11
B->C	8	/	8
B->G	2	/	9
H->C	10	/	10
C->D	17	/	17
C->I	1	/	14
D->I	6	/	6
D->E	6	/	6
D->J	5	/	20
E->J	6	/	13
F->G	11	/	11
G->H	15	/	25
H->I	5	/	13
I->J	12	/	12

Here is a graphical representation of the same flow network G :





Suppose that you are computing a max flow from A to J.

Starting from the given flow of value 23, give the sequence of vertices on the next (and final) augmenting path discovered by the Ford-Fulkerson algorithm.

Question 2

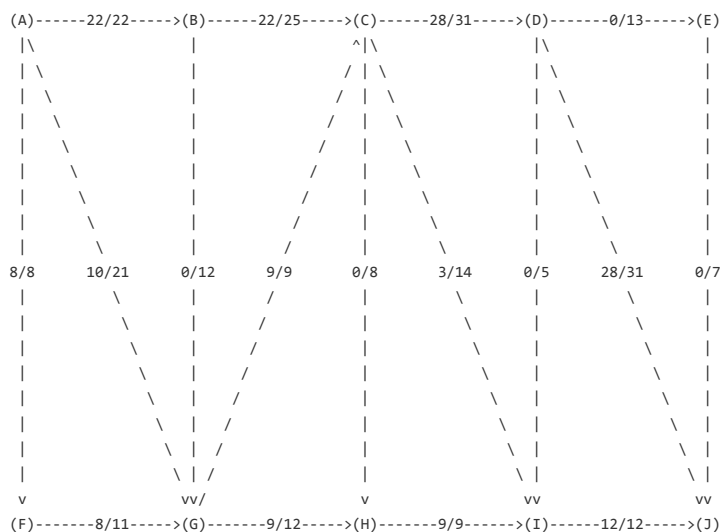
(seed = 841593)

Consider the flow network with 10 vertices and 17 edges:

edge	flow	capacity

A->F	8	8
A->G	10	21
A->B	22	22
B->G	0	12
B->C	22	25
G->C	9	9
C->I	3	14
C->D	28	31
C->H	0	8
D->J	28	31
D->E	0	13
D->I	0	5
E->J	0	7
F->G	8	11
G->H	9	12
H->I	9	9
I->J	12	12

Here is a graphical representation of the same flow network k:



The flow given above is a maxflow from A to J. What is the corresponding mincut?
List the vertices on the s side of mincut in alphabetical order.

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Submit Answers

Save Answers

You cannot submit your work until you agree to the Honor Code. Thanks!