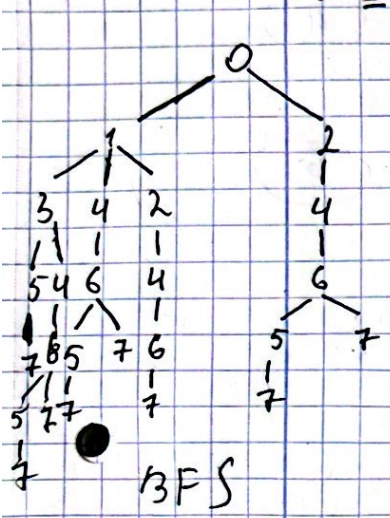


My Student ID: K12149099

$$d6=0=1$$

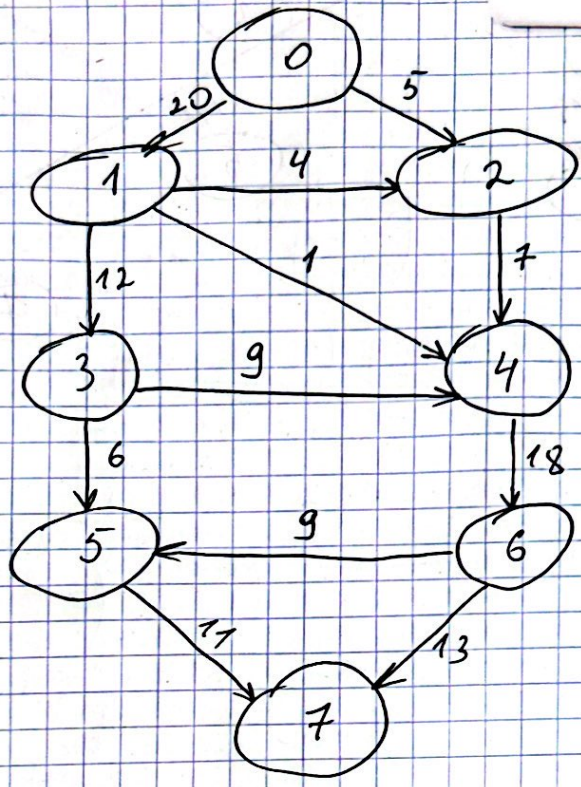
$$d7=9$$

$$d8=9$$



Paths:

1. $0 \rightarrow 1 \rightarrow 3 \rightarrow 5 \rightarrow 7$
2. $0 \rightarrow 1 \rightarrow 4 \rightarrow 6 \rightarrow 7$
3. $0 \rightarrow 2 \rightarrow 4 \rightarrow 6 \rightarrow 7$
4. $0 \rightarrow 1 \rightarrow 3 \rightarrow 4 \rightarrow 6 \rightarrow 7$

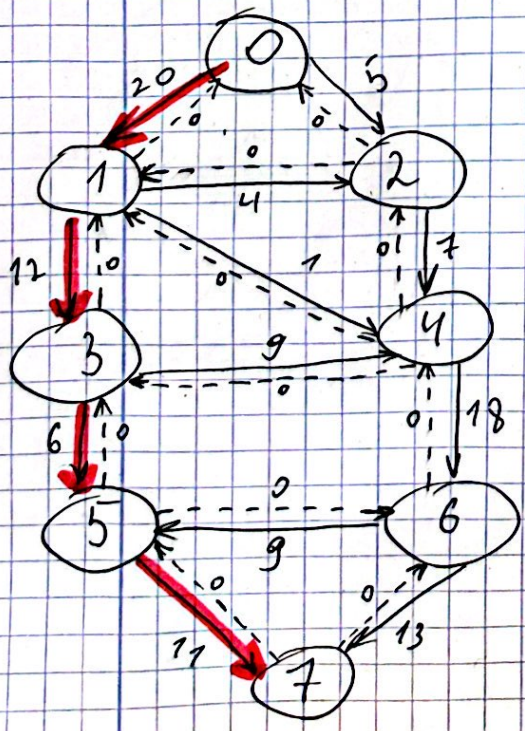


a) Complete the residual graph

b) Find an augmenting path using BFS

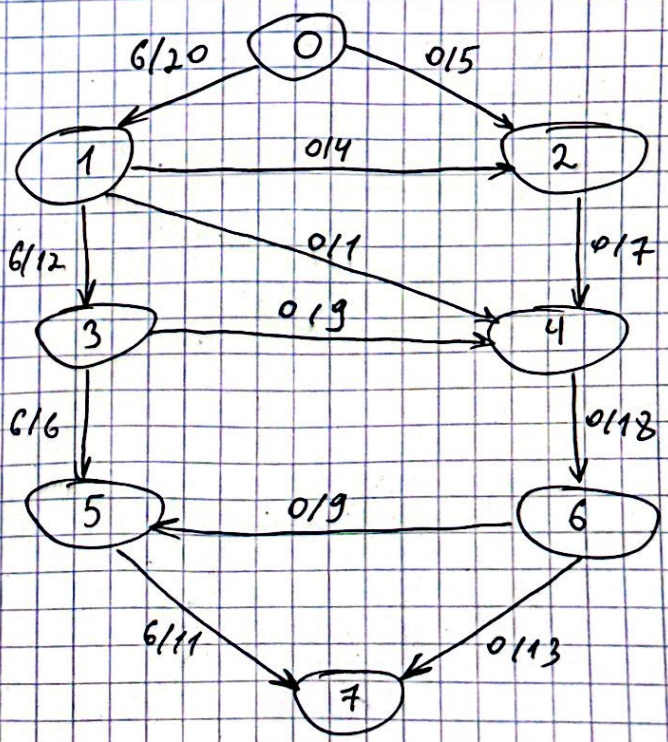
c) Update the current flow

1. Residual graph

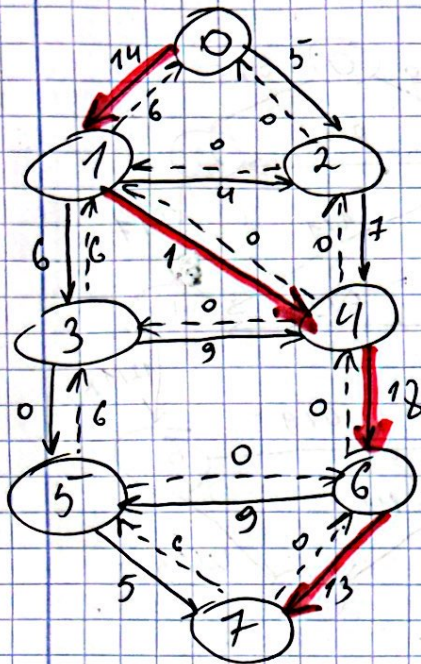


[0,1,3,5,4]

Current flow

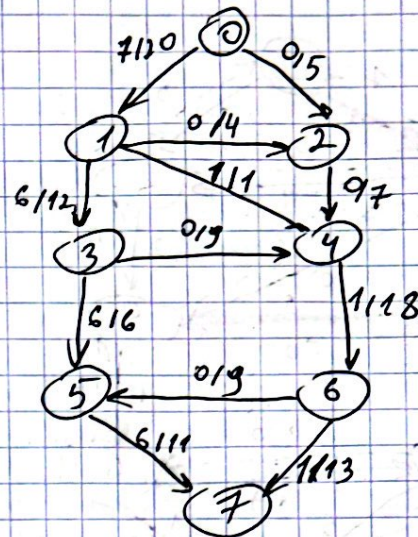


② Residual graph:

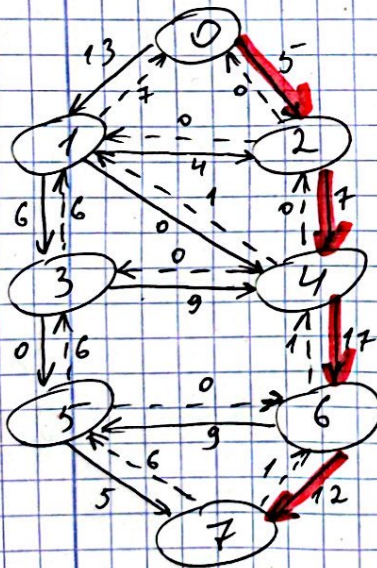


[0, 1, 4, 6, 7]

Current flow

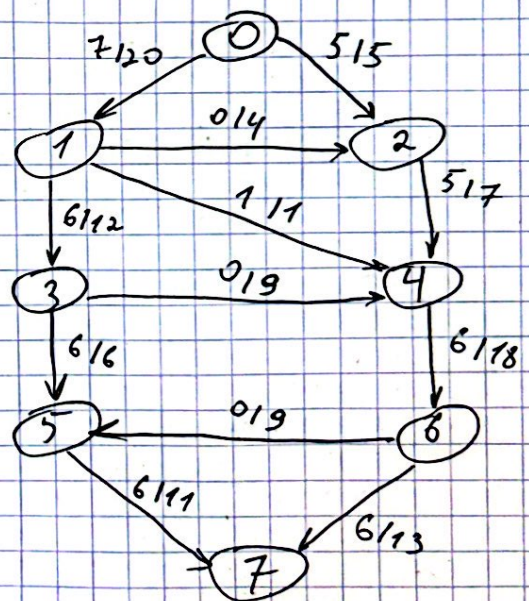


③ Residual graph



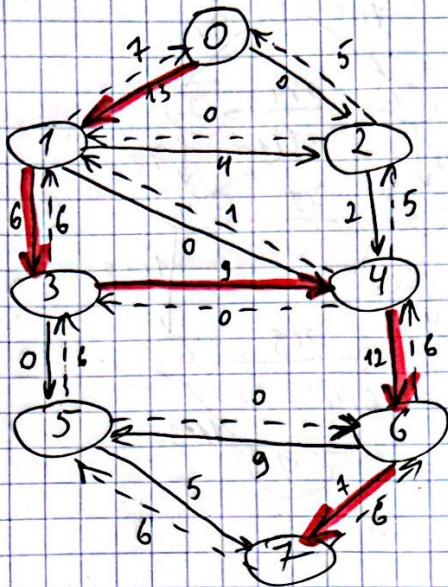
[0, 2, 4, 6, 7]

Current flow



④ Residual graph

Current flow



[0, 1, 3, 4, 6, 7]

