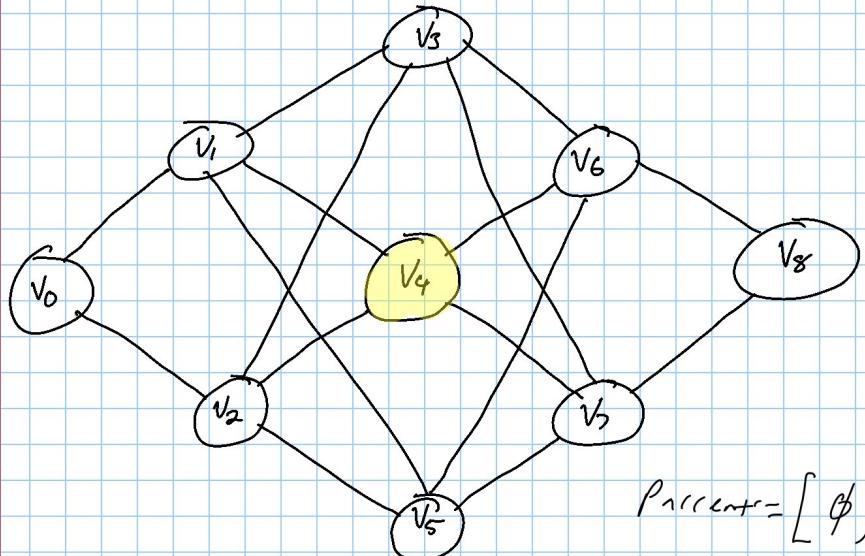


1) BFS Values changed to match code

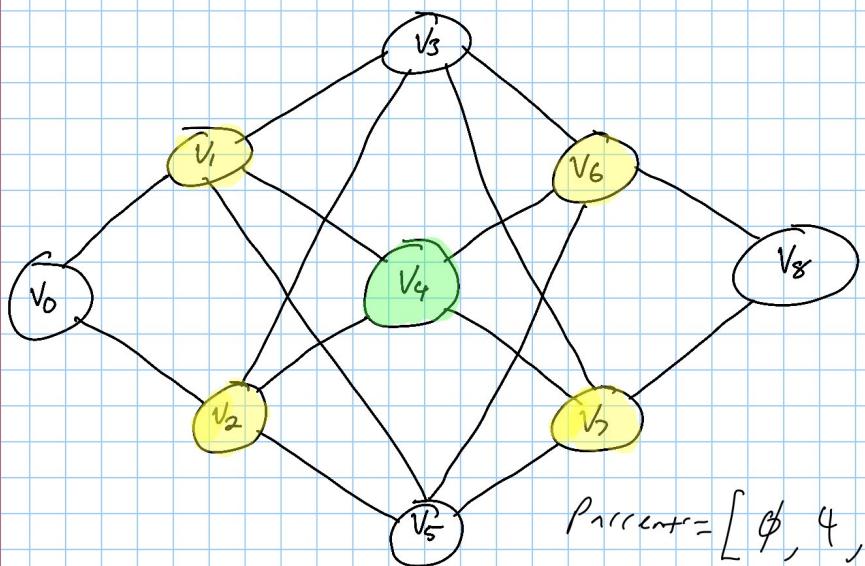


starts at v4

$$Q = [4]$$

$$\text{Order} = [ ]$$

$$\text{Parent} = [\emptyset, \emptyset, \emptyset, \emptyset, \emptyset, \emptyset, \emptyset, \emptyset, \emptyset]$$



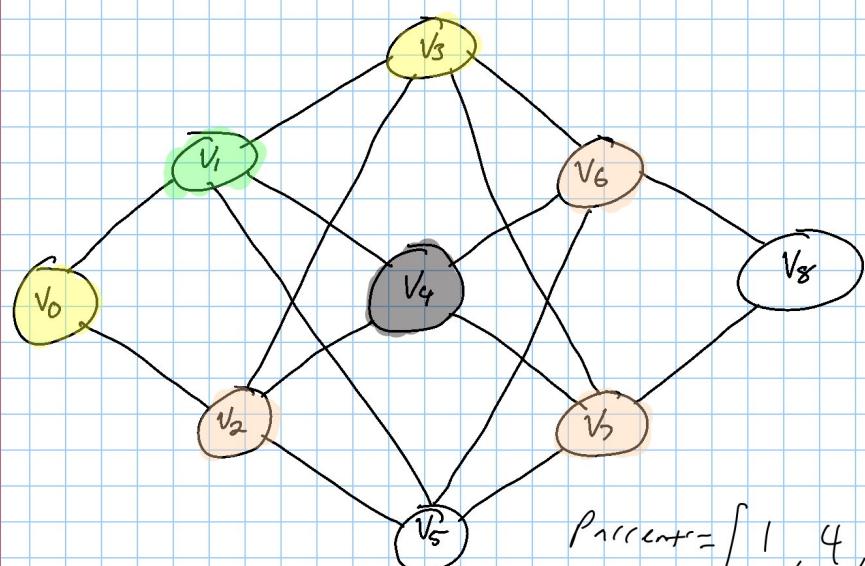
push connected to Q

$$\text{current} = 4$$

$$Q = [1, 2, 6, 7]$$

$$\text{order} = [4]$$

$$\text{Parent} = [\emptyset, 4, 4, \emptyset, \text{source}, \emptyset, 4, 4, \emptyset]$$



$$\text{current} = 1$$

$$Q = [2, 6, 7, 0, 3]$$

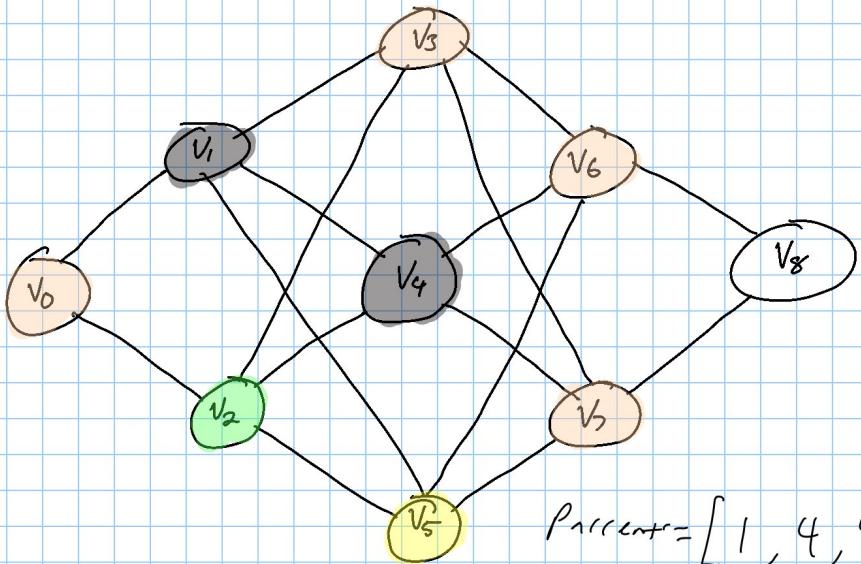
$$\text{order} = [4, 1]$$

$$\text{Parent} = [1, 4, 4, 1, \text{source}, \emptyset, 4, 4, \emptyset]$$

current = 2

$$Q = [6, 7, 0, 3, 5]$$

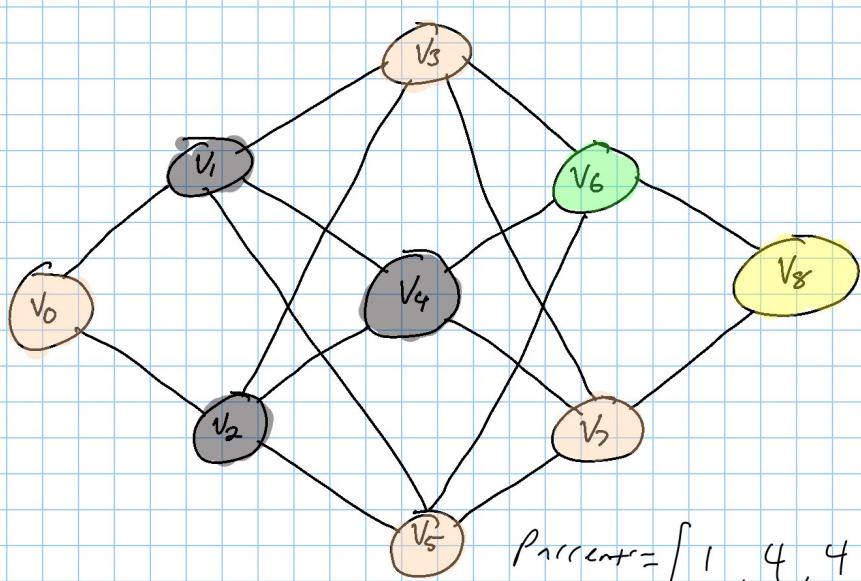
$$\text{order} = [4, 1, 2]$$



current = 6

$$Q = [7, 0, 3, 5, 8]$$

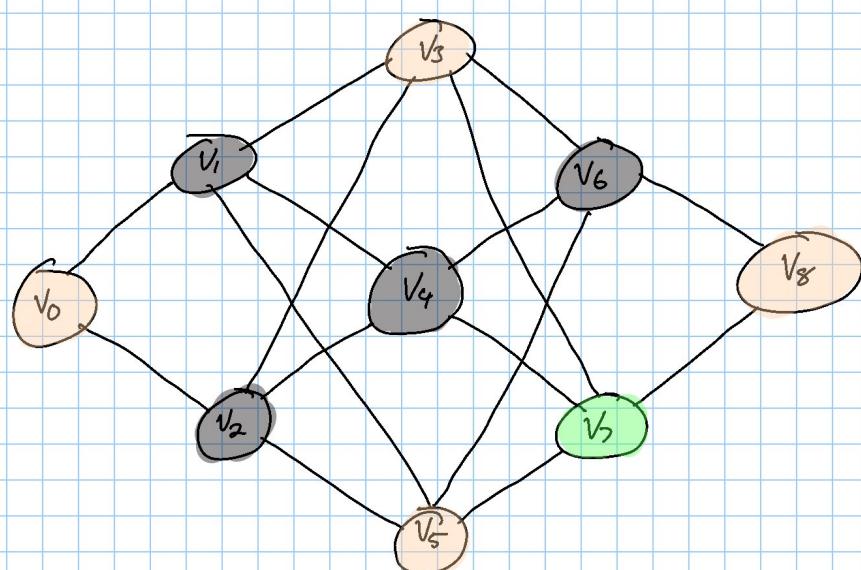
$$\text{order} = [4, 1, 2, 6]$$

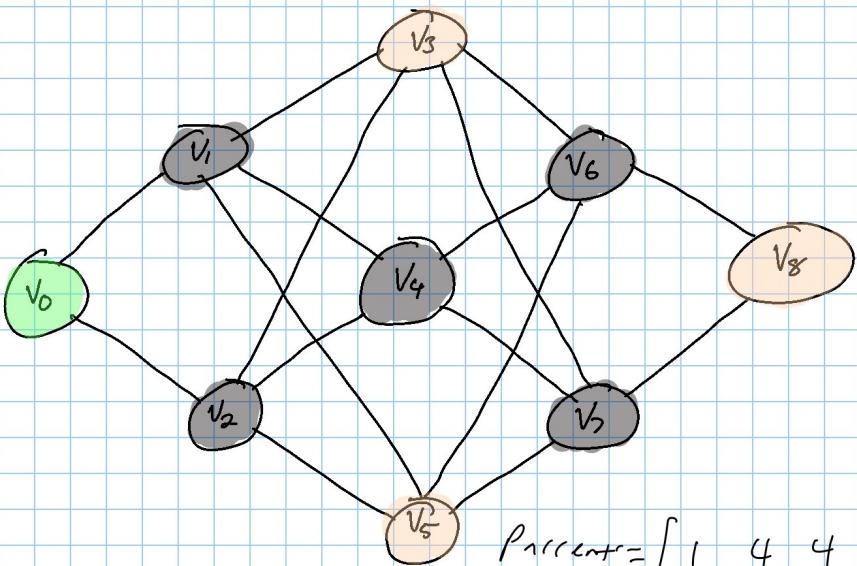


current = 7

$$Q = [0, 3, 5, 8]$$

$$\text{order} [4, 1, 2, 6, >]$$



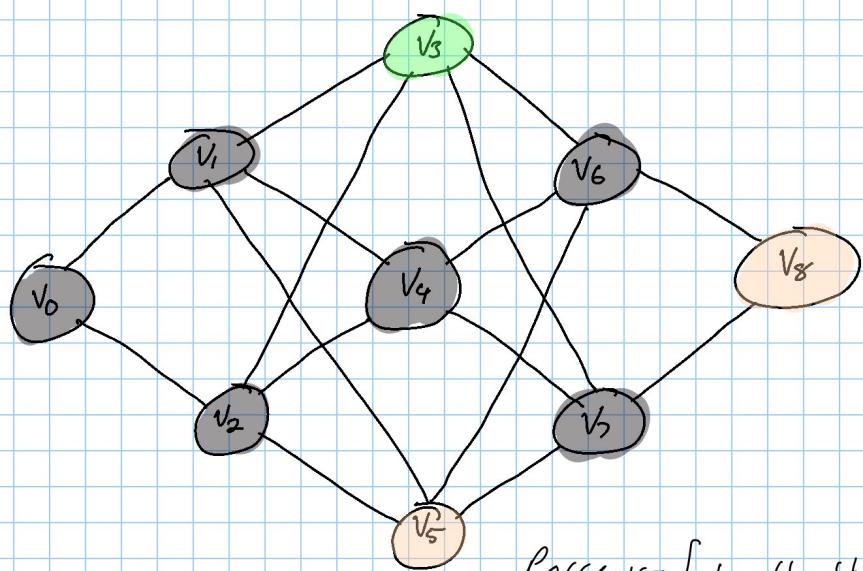


current = 0

$Q = [3, 5, 8]$

order = [4, 1, 2, 6, 7, 0]

Percent = [1, 4, 4, 1, source, 2, 4, 4, 8]

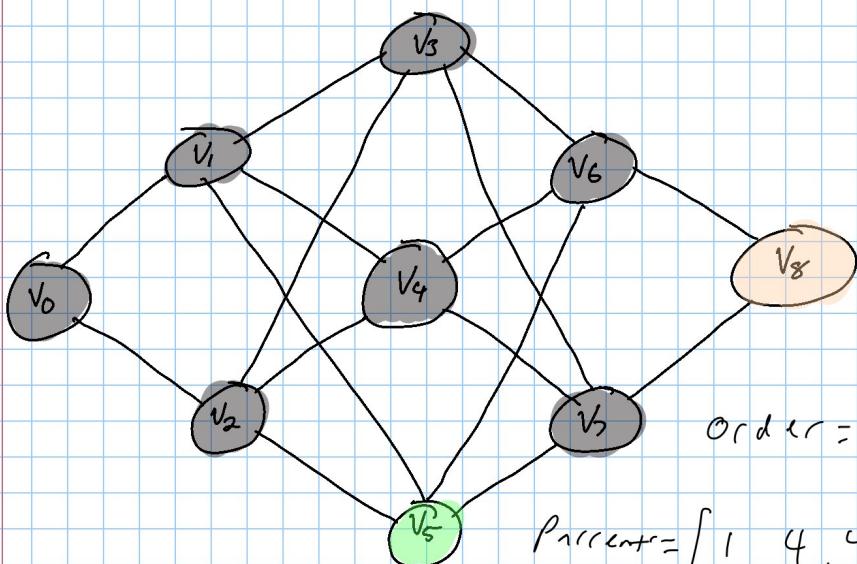


current = 3

$Q = [5, 8]$

order = [4, 1, 2, 6, 7, 0, 3]

Percent = [1, 4, 4, 1, source, 2, 4, 4, 8]

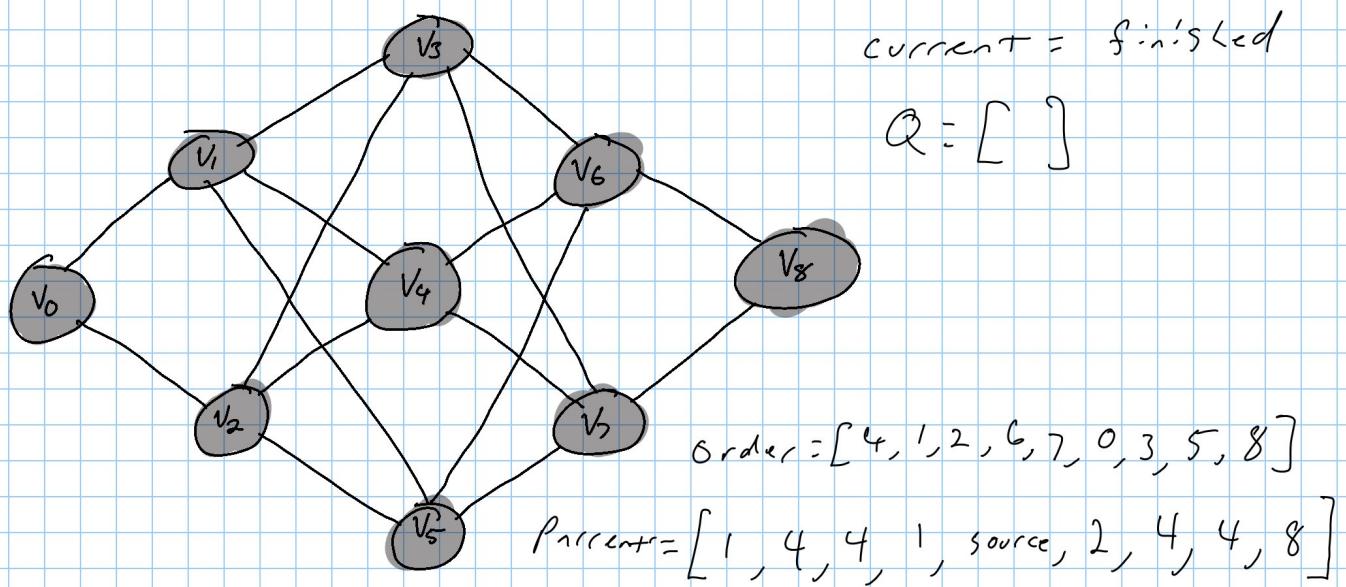
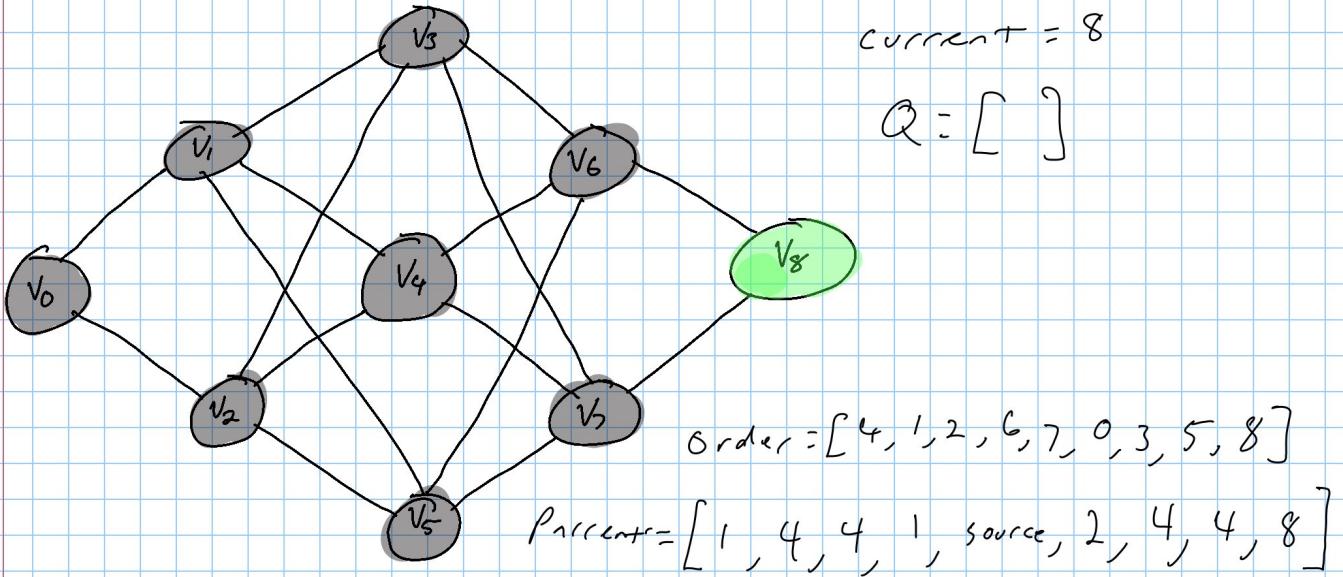


current = 5

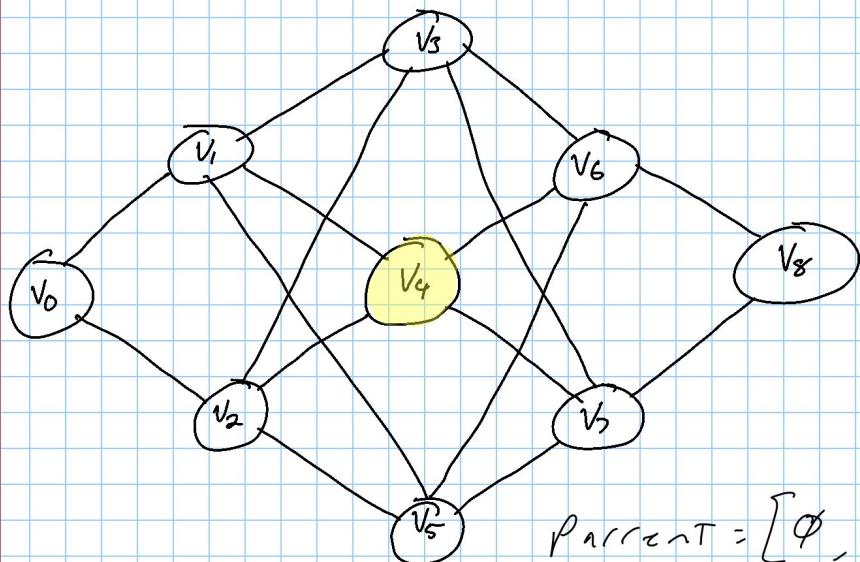
$Q = [8]$

order = [4, 1, 2, 6, 7, 0, 3, 5]

Percent = [1, 4, 4, 1, source, 2, 4, 4, 8]



DFS



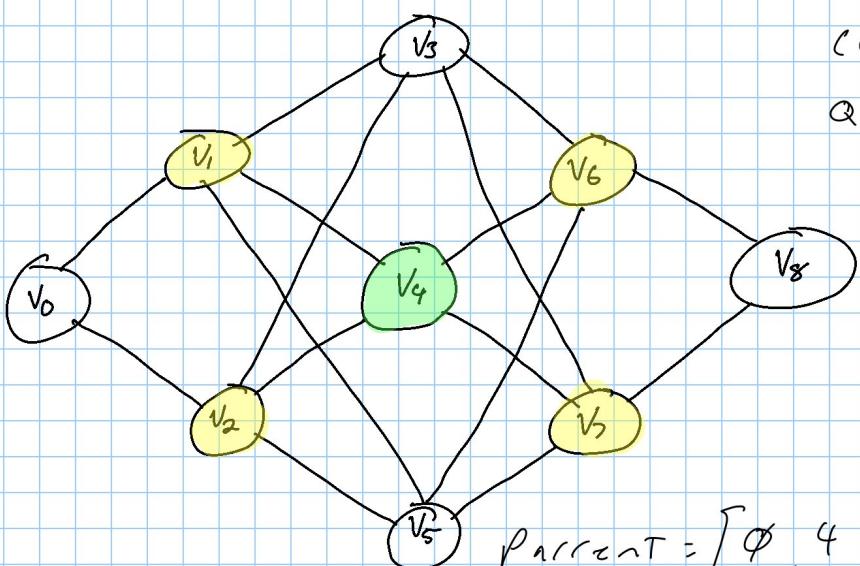
starting at 4

current =

Q = [4]

order = [ ]

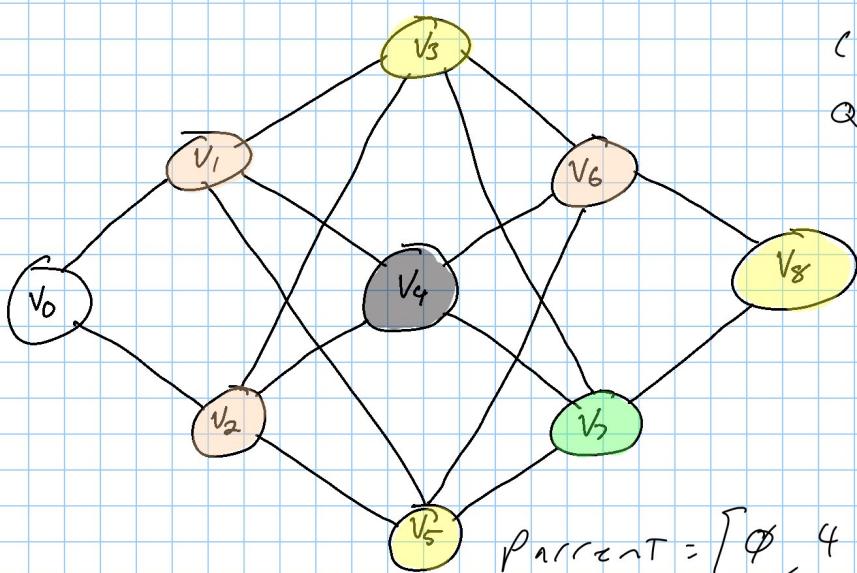
parent = [ $\emptyset, \emptyset, \emptyset, \emptyset, \emptyset, \emptyset, \emptyset, \emptyset, \emptyset$  ]



current = 4

Q = [1, 2, 6, 7]

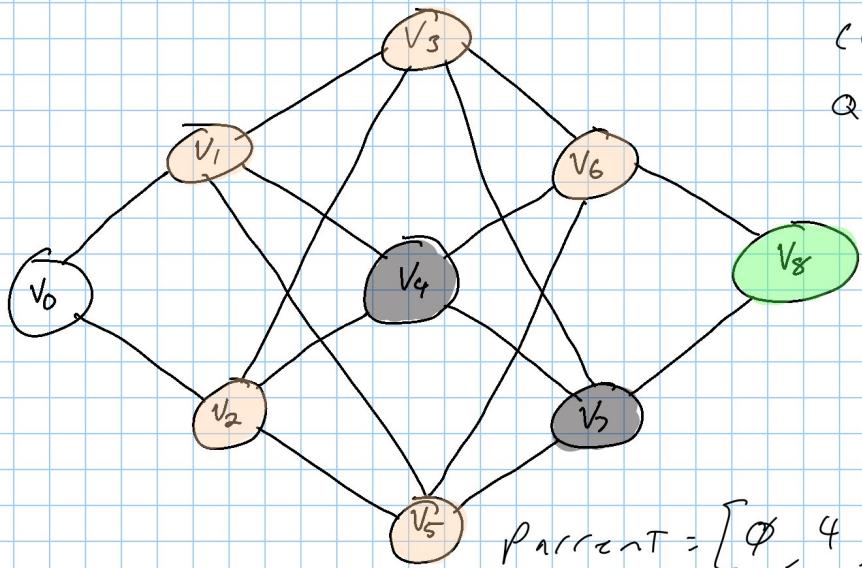
parent = [ $\emptyset, 4, 4, \emptyset, \text{source}, \emptyset, 4, 4, \emptyset$  ]



current = 7

Q = [1, 2, 6, 3, 5, 8]

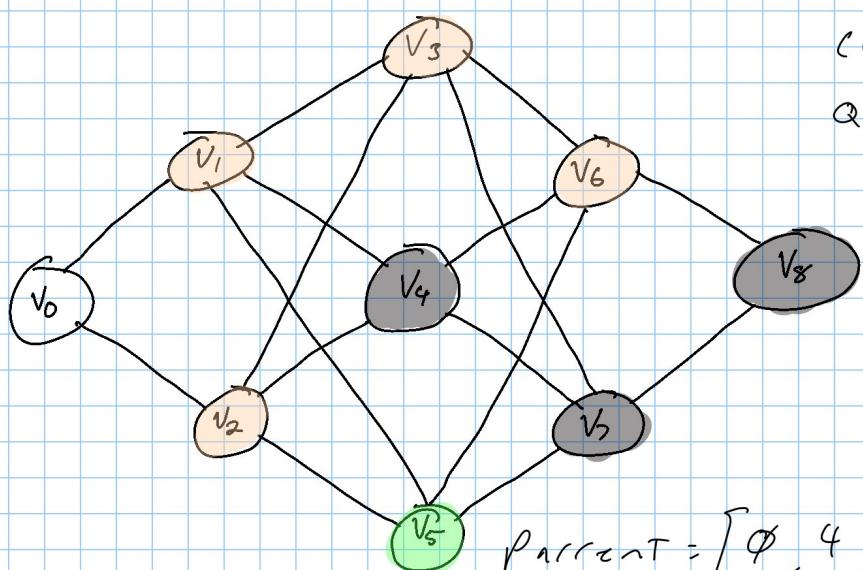
parent = [ $\emptyset, 4, 4, 7, \text{source}, 7, 4, 4, 7$  ]



Current = 8

$$Q = [1, 2, 6, 3, 5]$$

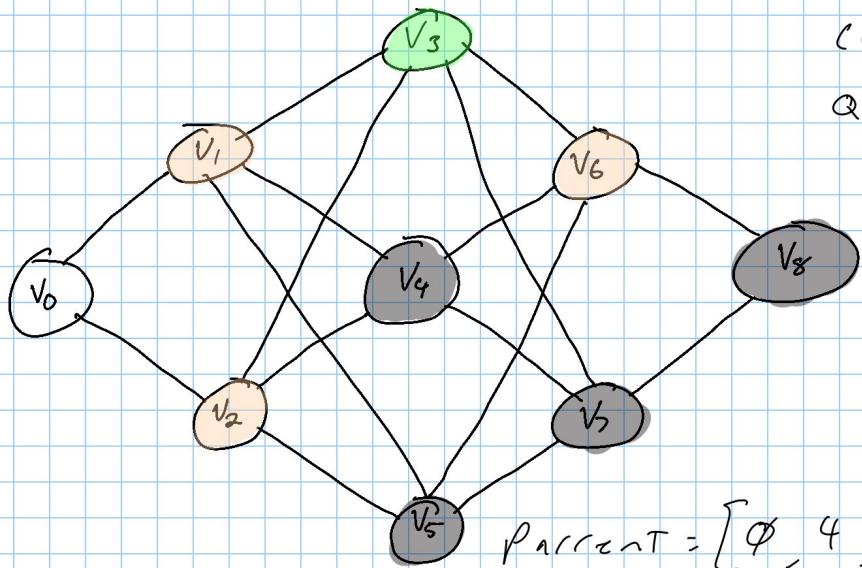
$$\text{parent} = [\emptyset, 4, 4, 7, \text{source}, 7, 4, 4, 7]$$



Current = 5

$$Q = [1, 2, 6, 3]$$

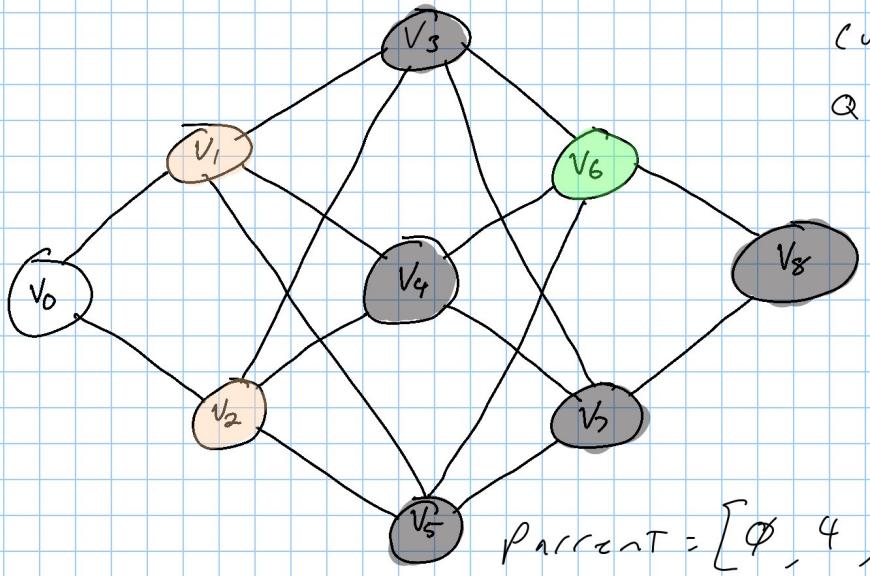
$$\text{parent} = [\emptyset, 4, 4, 7, \text{source}, 7, 4, 4, 7]$$



Current = 3

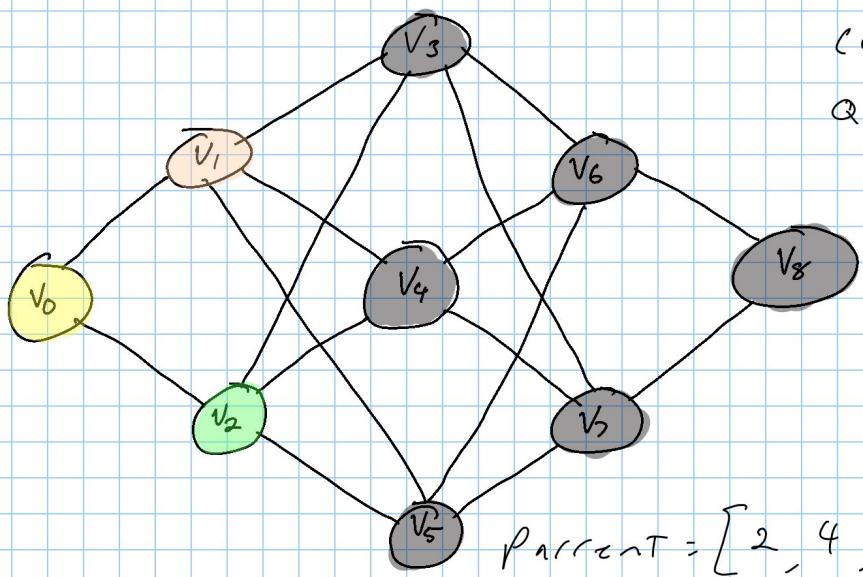
$$Q = [1, 2, 6]$$

$$\text{parent} = [\emptyset, 4, 4, 7, \text{source}, 7, 4, 4, 7]$$



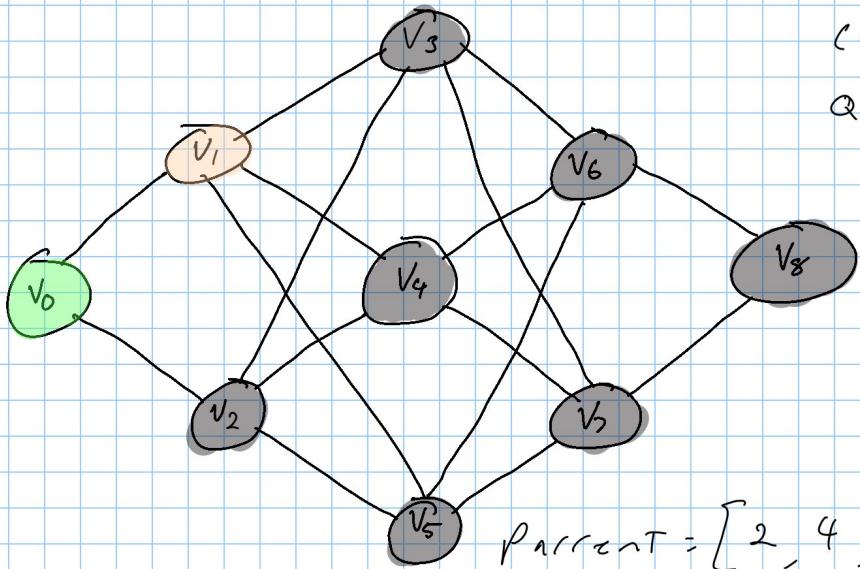
Current = 6  
 $Q = [1, 2]$

parent =  $[ \emptyset, 4, 4, 7, \text{source}, 7, 4, 4, 7 ]$



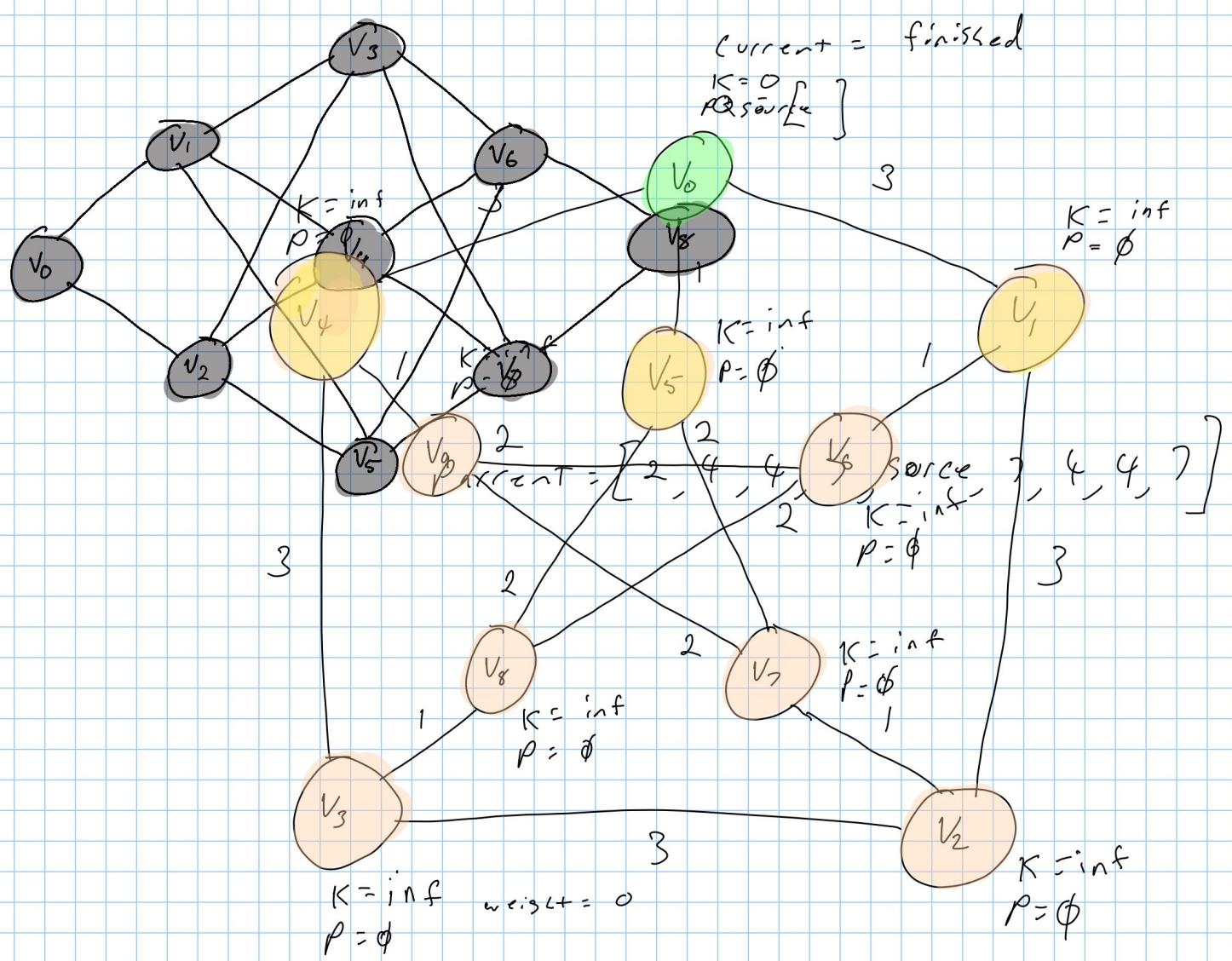
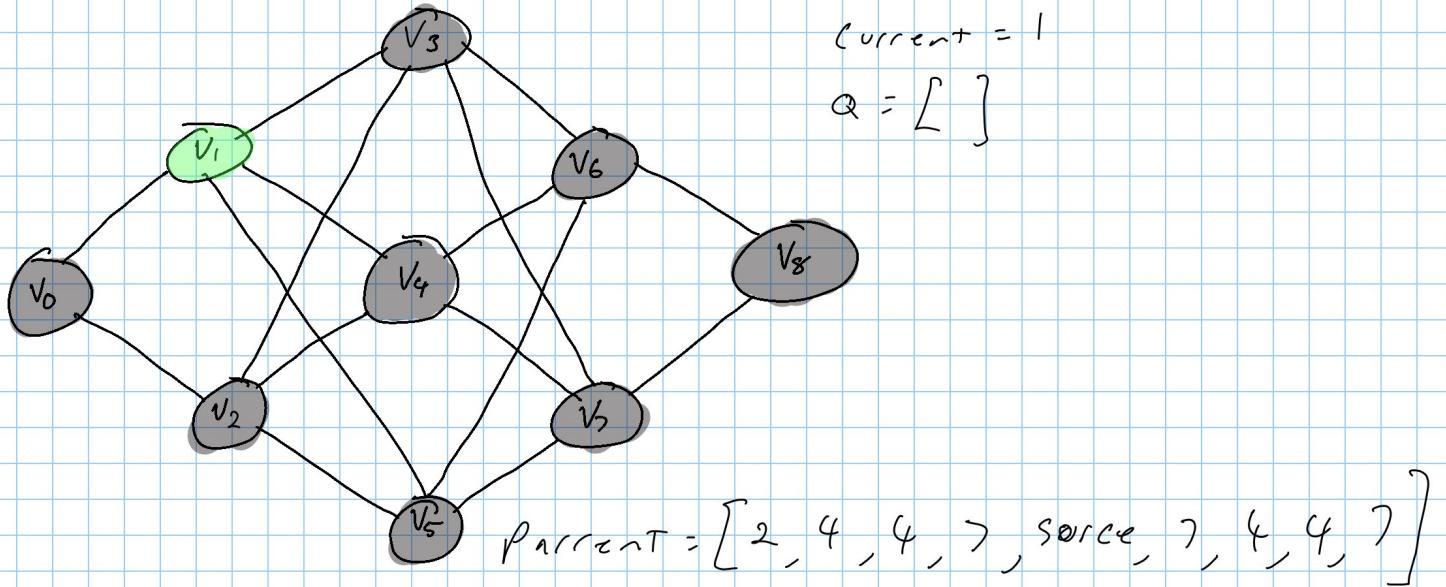
Current = 2  
 $Q = [1, 0]$

parent =  $[ 2, 4, 4, 7, \text{source}, 7, 4, 4, 7 ]$



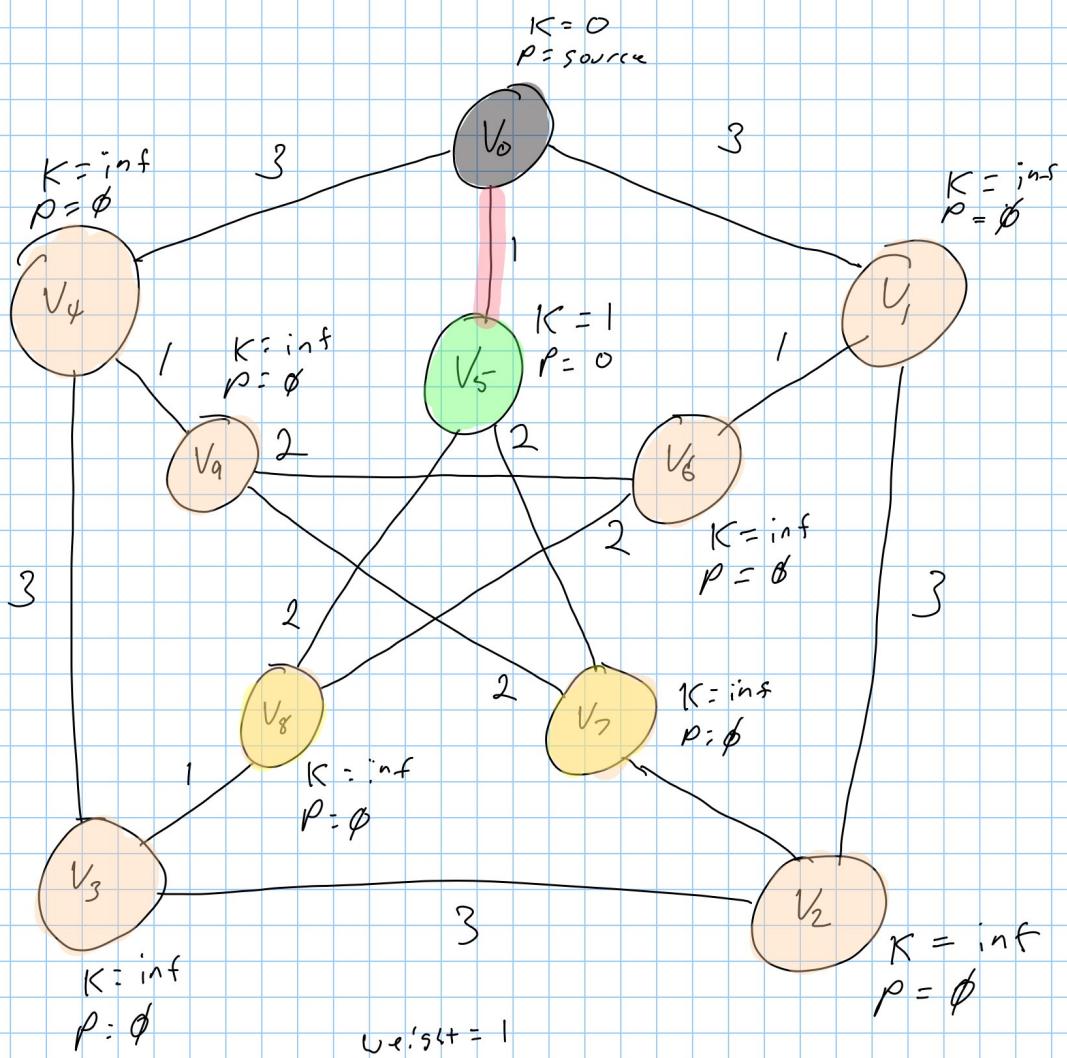
Current = 0  
 $Q = [1]$

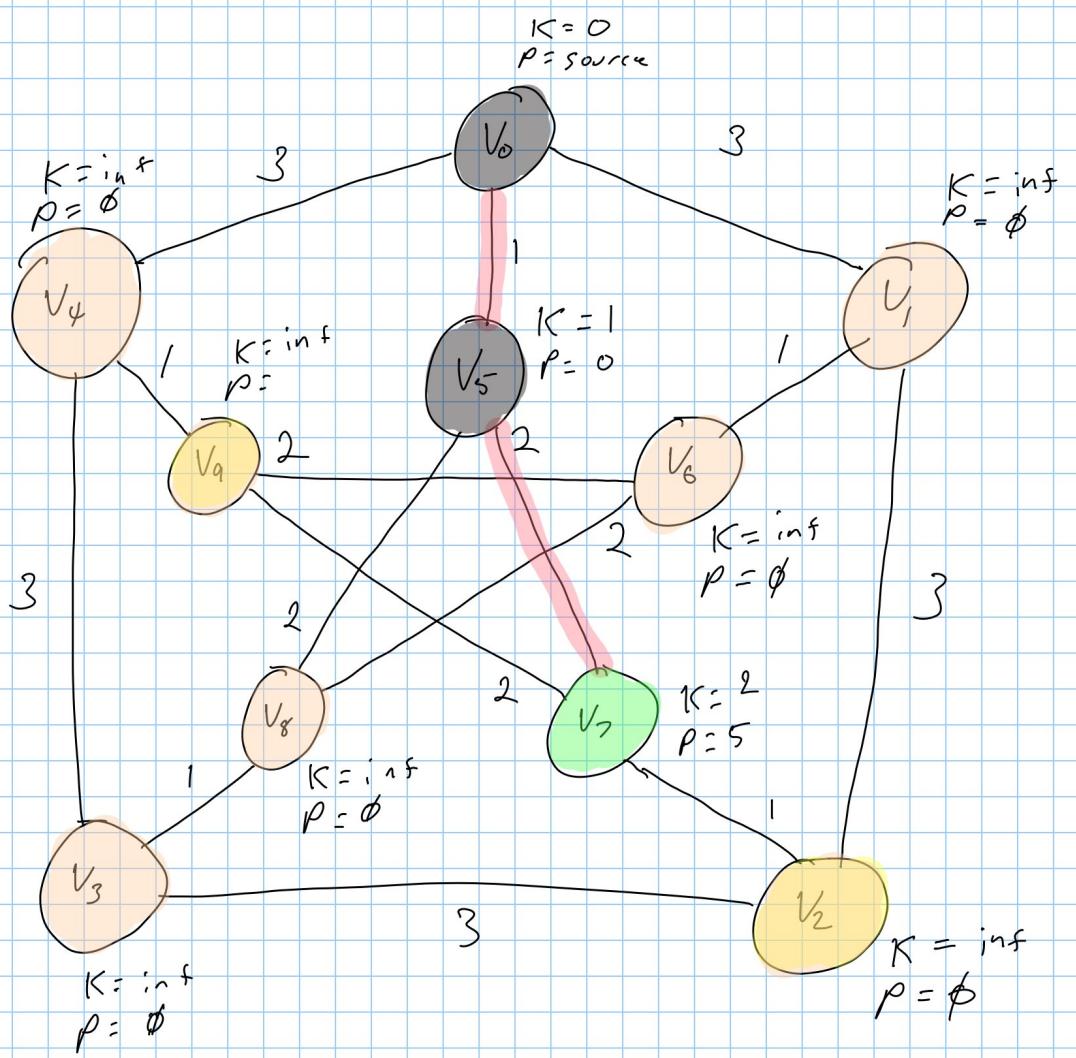
parent =  $[ 2, 4, 4, 7, \text{source}, 7, 4, 4, 7 ]$



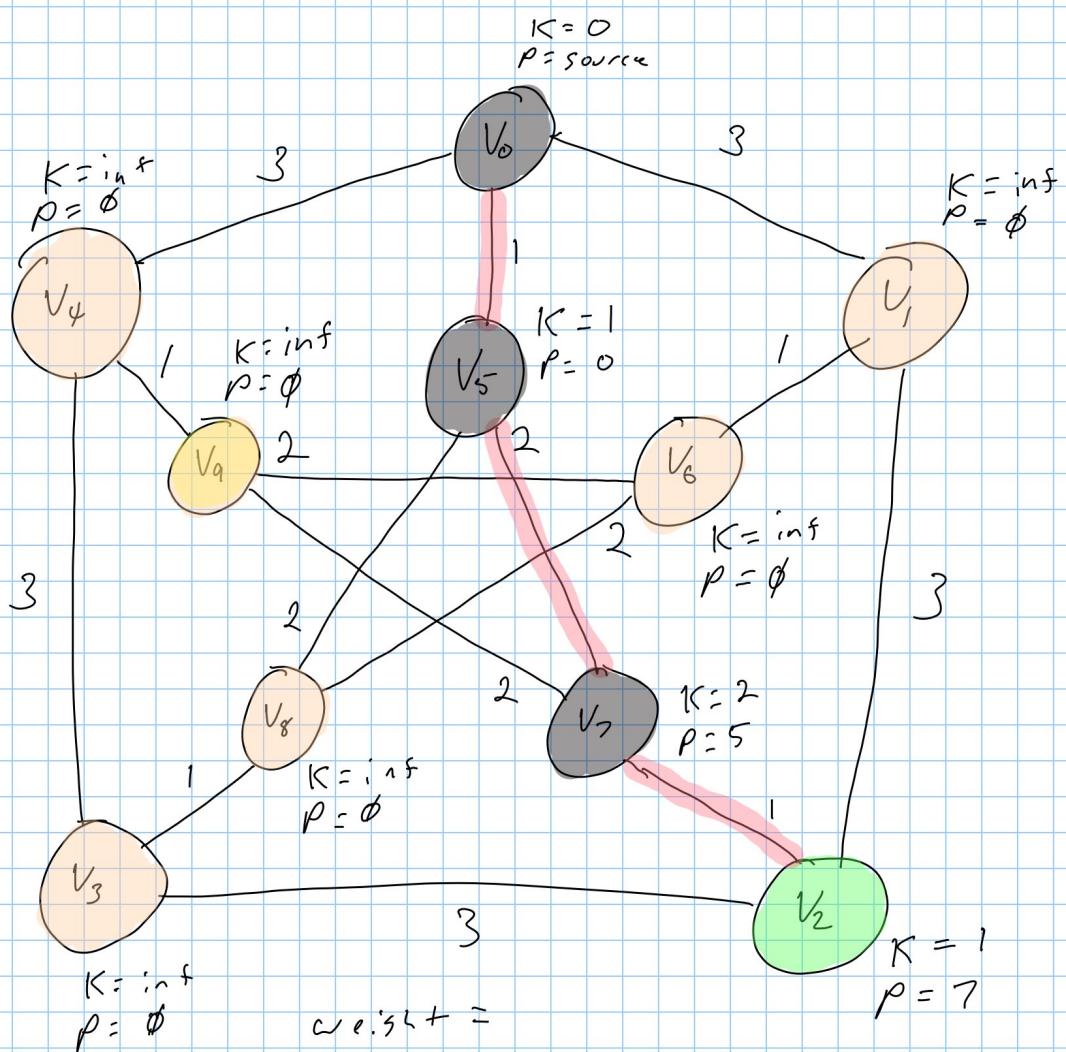
problem 2 changed U to match code  
starting with  $V_0$

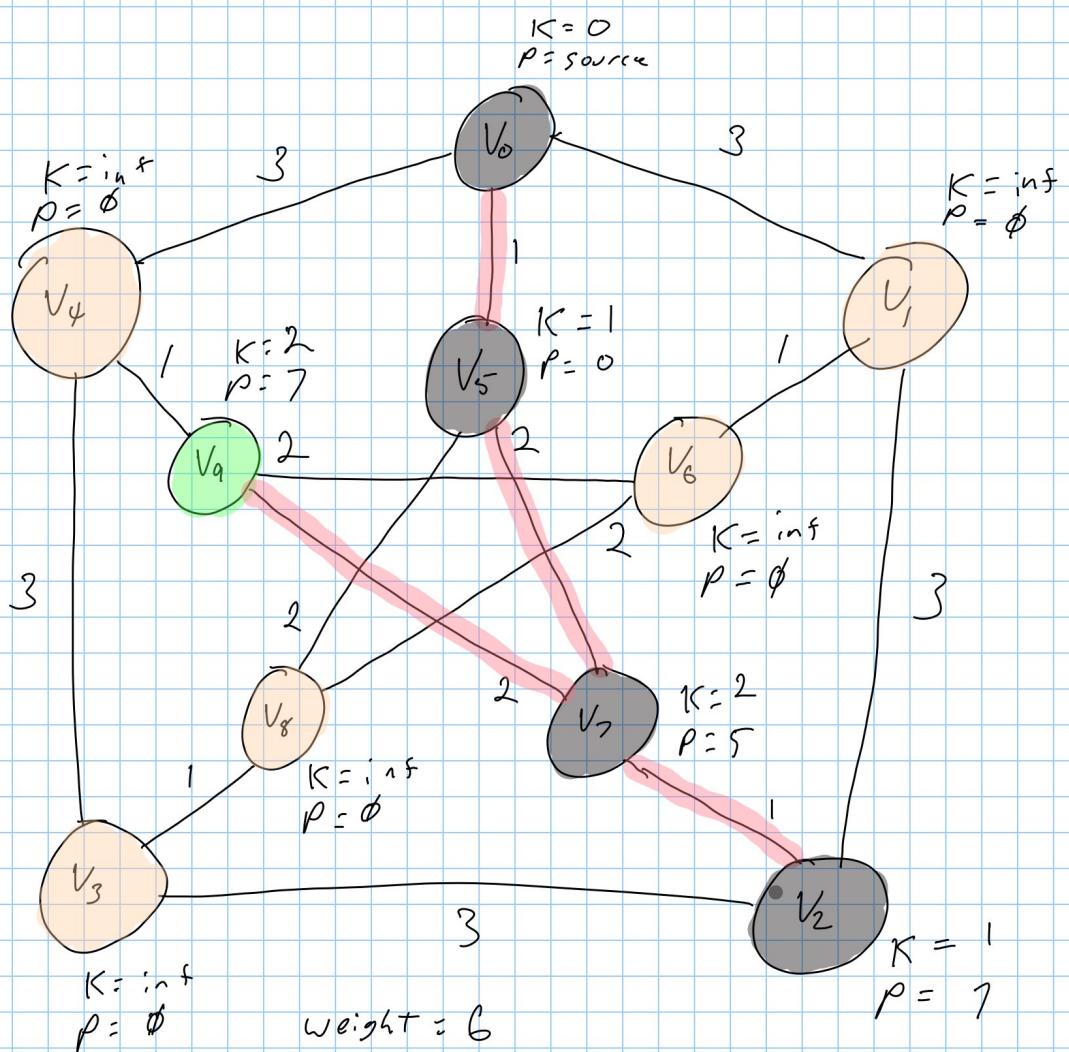
prims

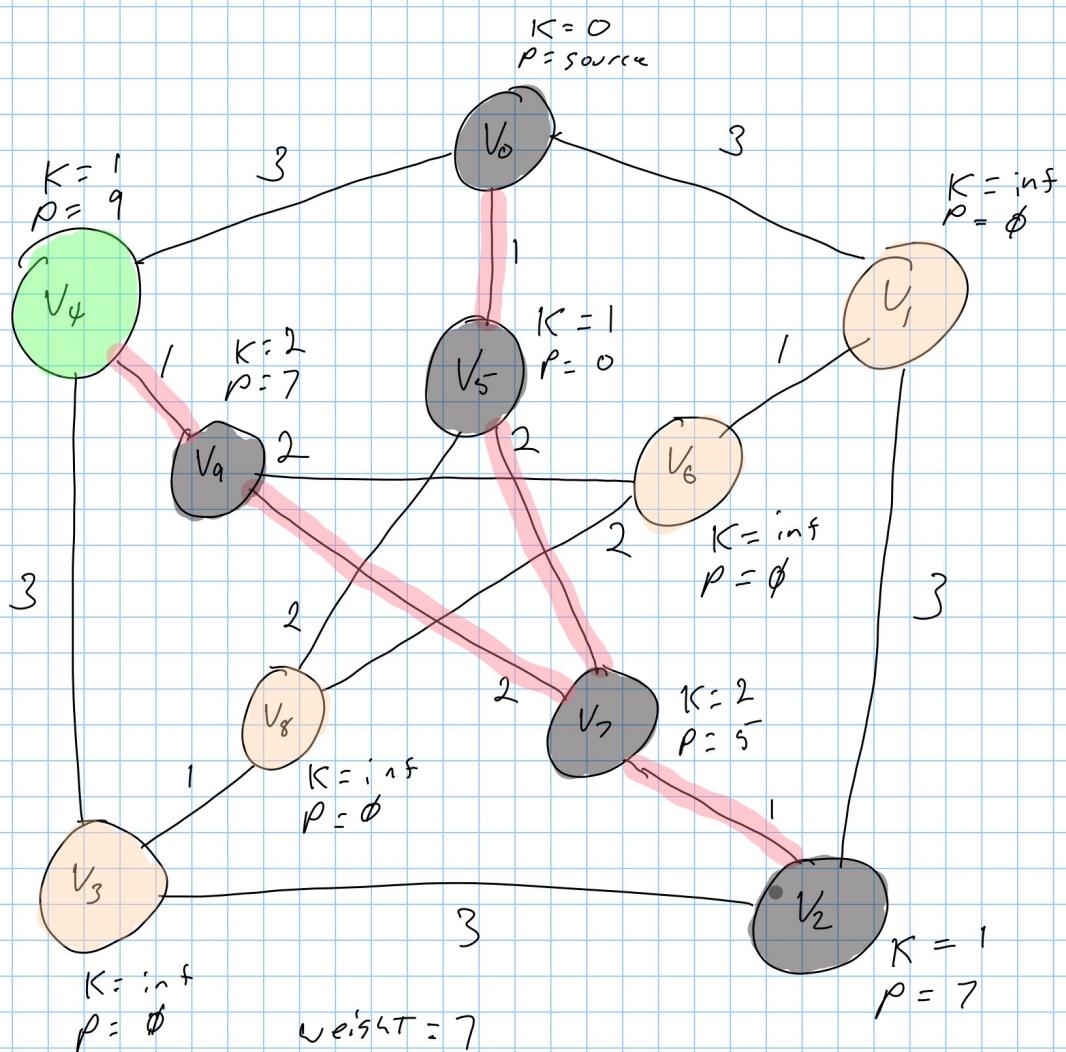


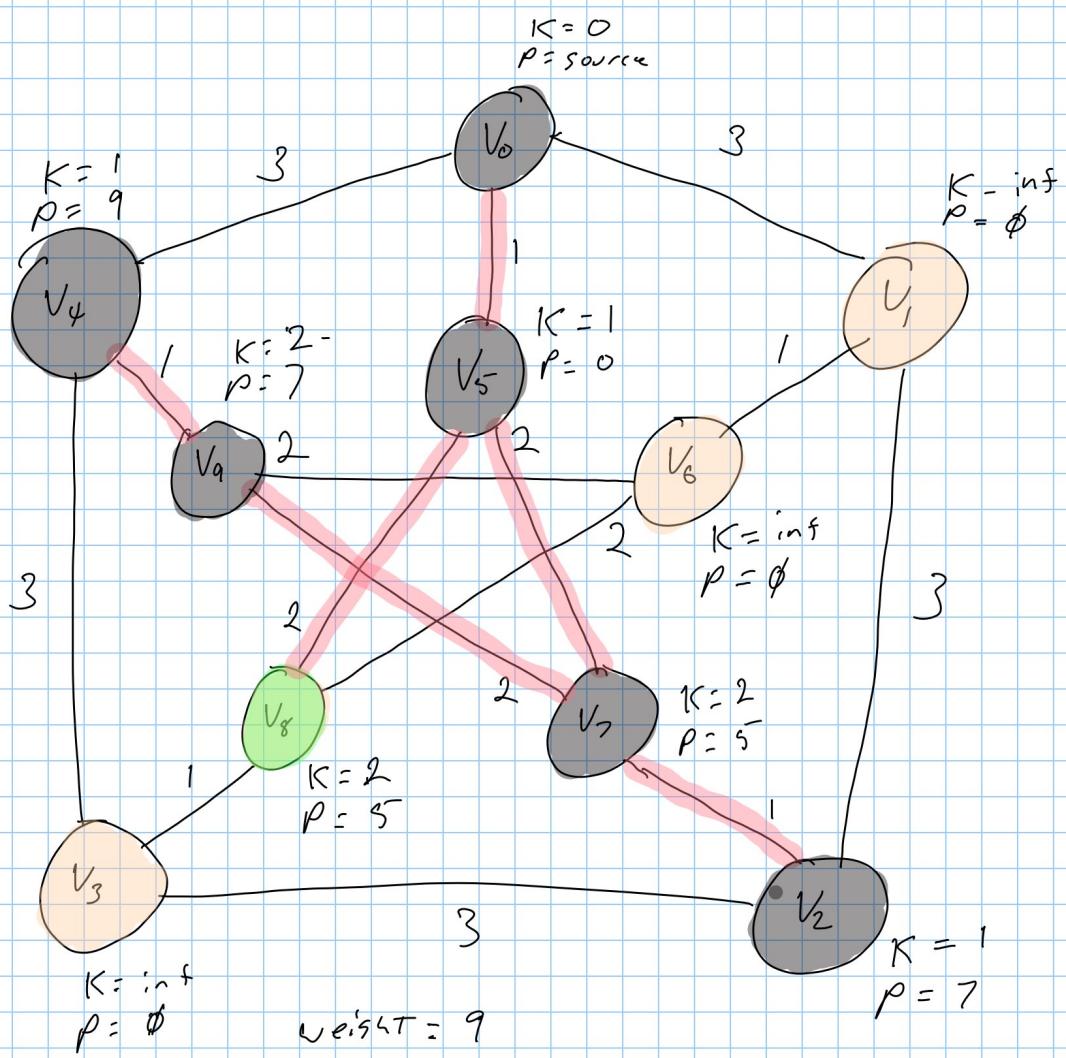


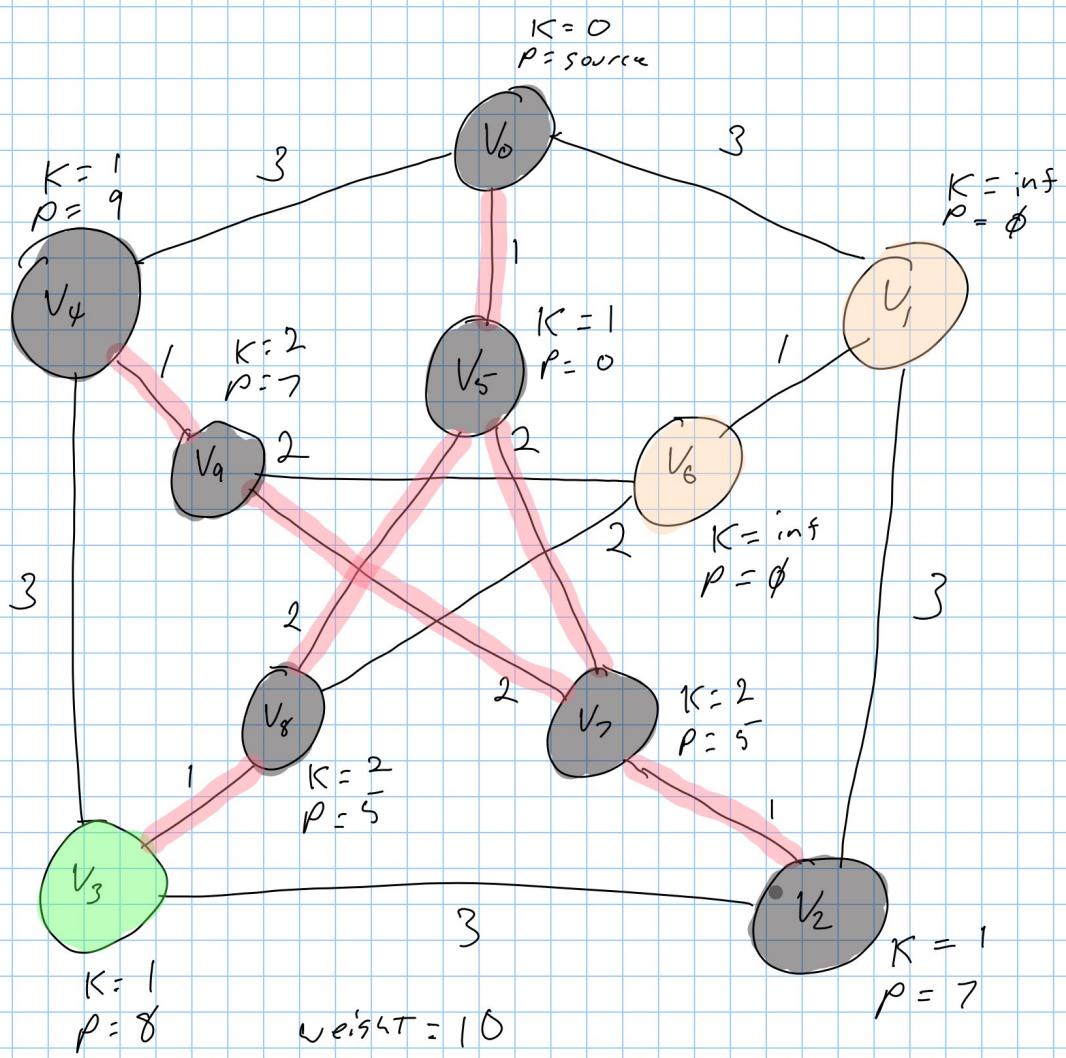
]

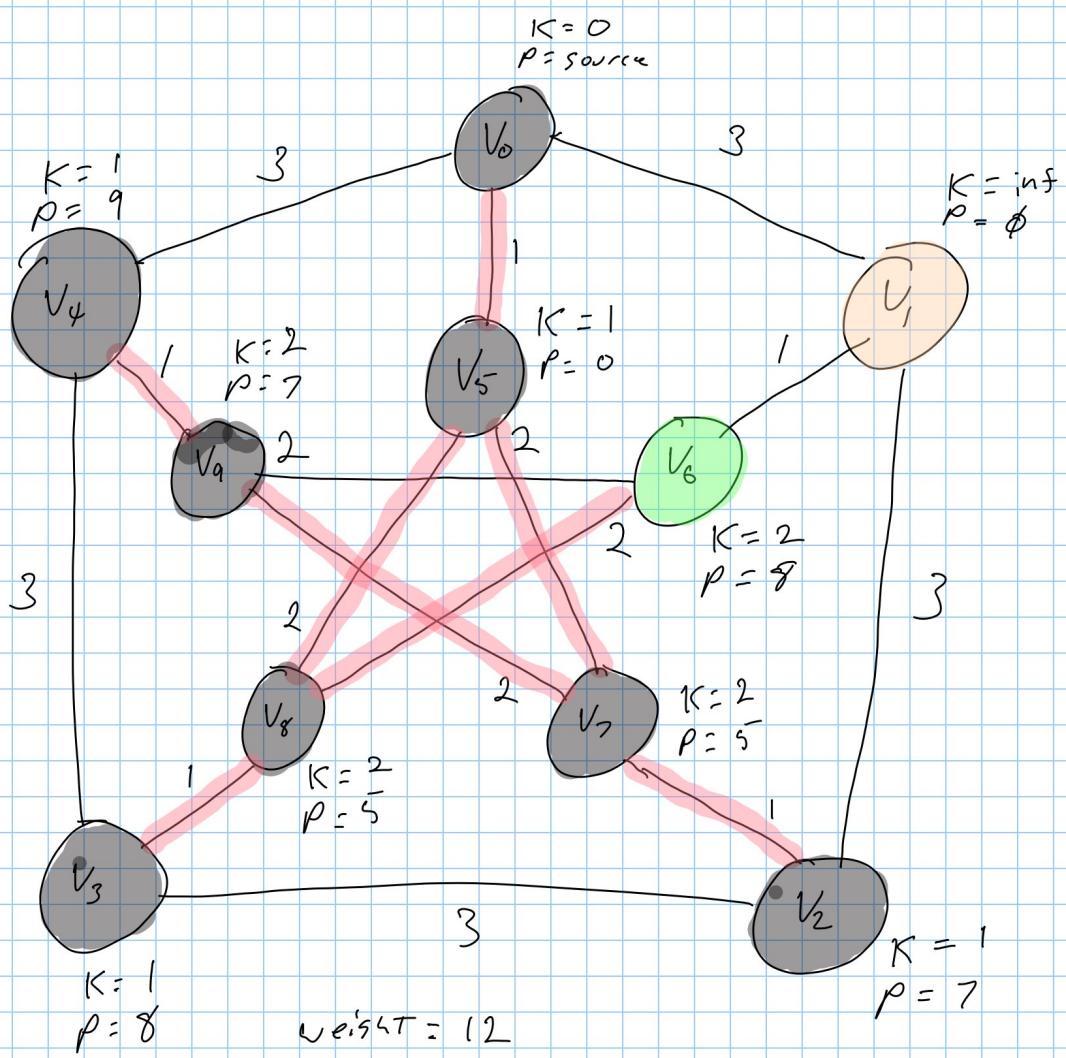


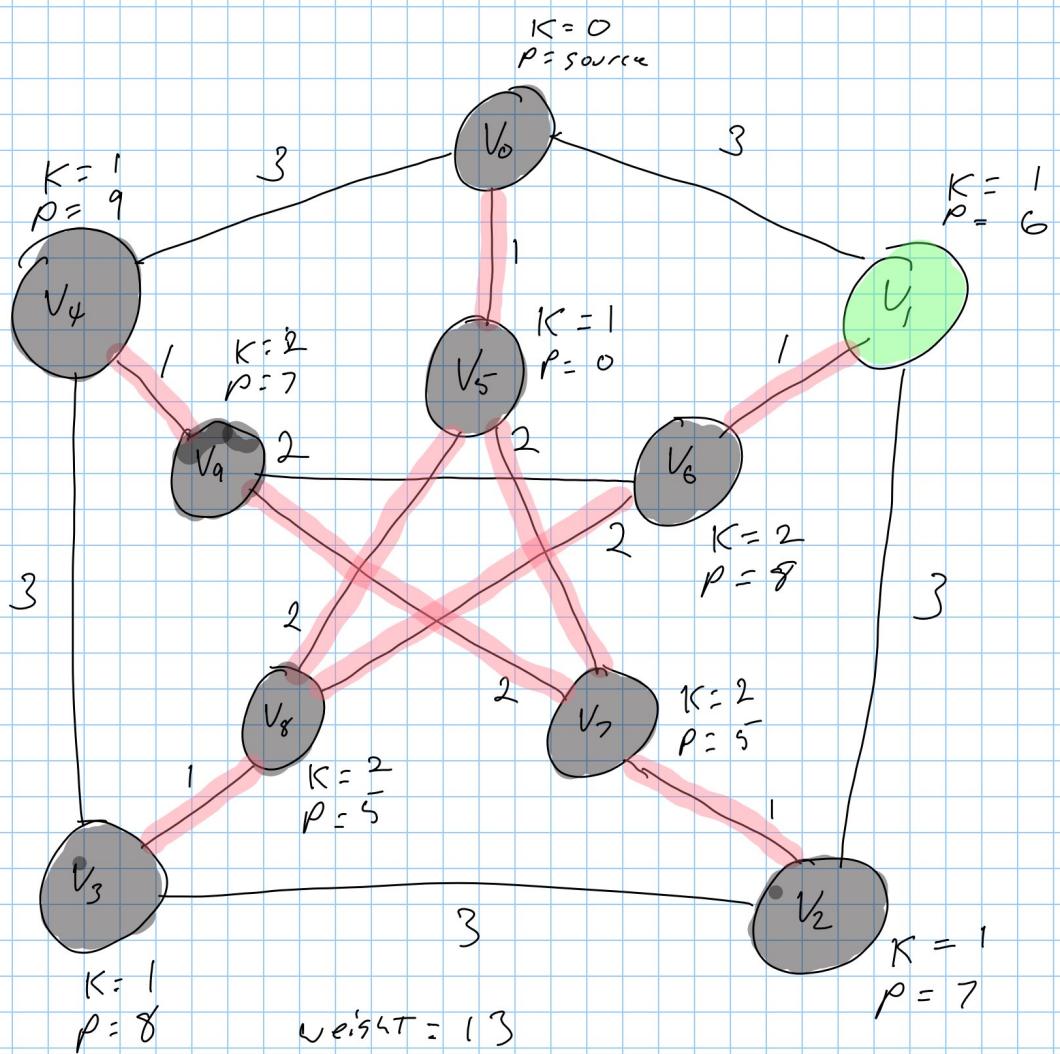












# Kruskal

