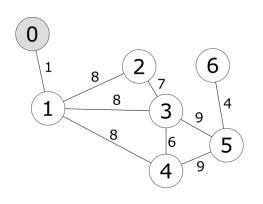
#### Assignment 2 - Example

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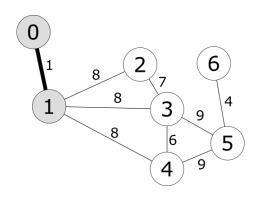
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$$C = \{1, 2, 3, 4, 5, 6\}$$
  
 $S = \emptyset$ 

$$c = [0, 0, 0, 0, 0, 0, 0]$$
  
 
$$d = [0, 1, \infty, \infty, \infty, \infty, \infty]$$



$$k = 1$$

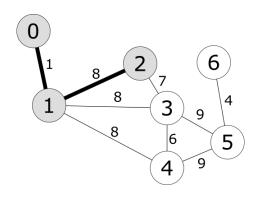
$$c[k] = 0$$

$$C = \{2, 3, 4, 5, 6\}$$

$$S = \{\{0, 1\}\}$$

$$c = [0, 0, \mathbf{1}, \mathbf{1}, \mathbf{1}, 0, 0]$$

$$d = [0, 1, \mathbf{8}, \mathbf{8}, \mathbf{8}, \infty, \infty]$$



$$k = 2$$

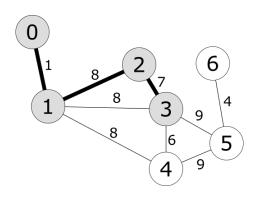
$$c[k] = 1$$

$$C = \{3, 4, 5, 6\}$$

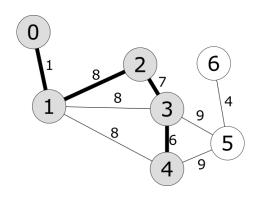
$$S = \{\{0, 1\}, \{1, 2\}\}\}$$

$$c = [0, 0, 1, \mathbf{2}, 1, 0, 0]$$

$$d = [0, 1, 8, \mathbf{7}, 8, \infty, \infty]$$



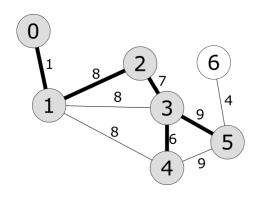
$$k = 3$$
  
 $c[k] = 2$   
 $C = \{4, 5, 6\}$   
 $S = \{\{0, 1\}, \{1, 2\}, \{2, 3\}\}\}$   
 $c = [0, 0, 1, 2, \mathbf{3}, \mathbf{3}, 0]$   
 $d = [0, 1, 8, 7, \mathbf{6}, \mathbf{9}, \infty]$ 



$$k = 4$$
$$c[k] = 3$$

$$\begin{split} & \textit{C} = \{5,6\} \\ & \textit{S} = \{\{0,1\},\{1,2\},\{2,3\},\\ & \{3,4\}\} \end{split}$$

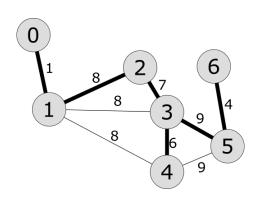
$$c = [0, 0, 1, 2, 3, 3, 0]$$
  
$$d = [0, 1, 8, 7, 6, 9, \infty]$$



$$k = 5$$
$$c[k] = 3$$

$$C = \{6\}$$
 
$$S = \{\{0, 1\}, \{1, 2\}, \{2, 3\}, \{3, 4\}, \{3, 5\}\}$$

$$c = [0, 0, 1, 2, 3, 3, \mathbf{5}]$$
  
 $d = [0, 1, 8, 7, 6, 9, \mathbf{4}]$ 



$$k = 6$$
$$c[k] = 5$$

$$C = \emptyset$$

$$S = \{\{0,1\}, \{1,2\}, \{2,3\}, \{3,4\}, \{3,5\}, \{5,9\}\}$$

$$c = [0, 0, 1, 2, 3, 3, 5]$$
  
 $d = [0, 1, 8, 7, 6, 9, 4]$ 

$$D=35$$