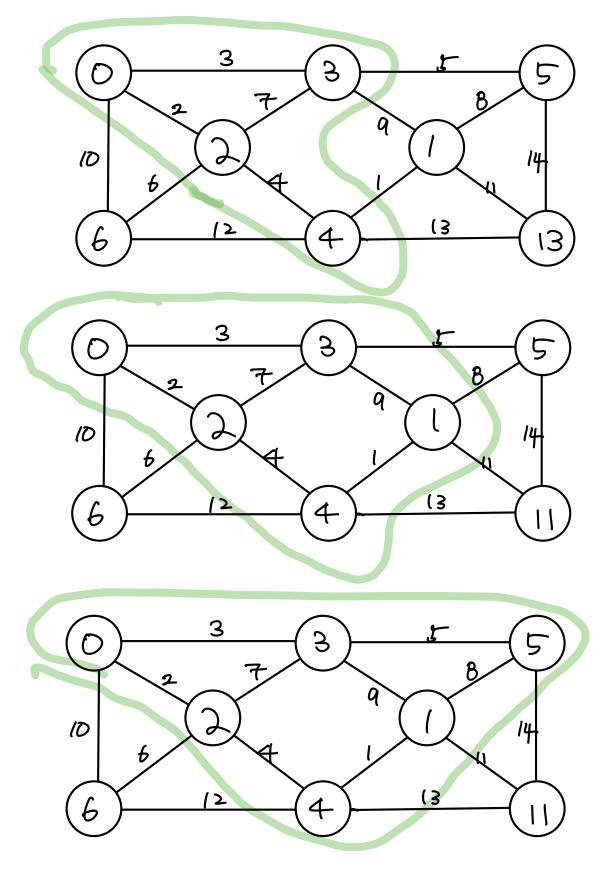
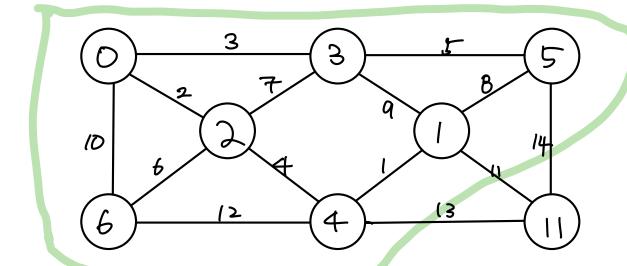
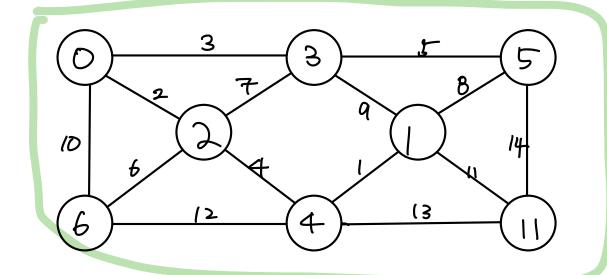
## Assignment 7

2022-24670 GSD5 なな対 은는 사이를 당히 존개하는 maximum ucight edge이므로 Cron 대한 임의의 cut on 대해서 light edge 및 는 없다. 따라서 어떠한 MST의 발문하는데 대해서도 safe 하다 않고, 이는 원원은 포함한 minimum spanning tree 는 건강한 수 없음은 문한다. 따라서 ② (VIE - 원용)라 (VIE)가 같은 MST 근 문학하는 뜻한다.

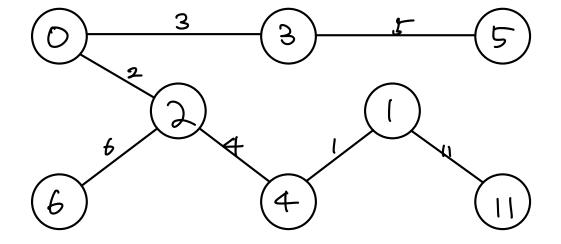
2. (a) ક 8 7 q 9 9 D 14 6 (3 12 4 9 S ક bo 3 q 2  $\infty$ D 14 6 (3 12 Z [0]  $\infty$ ક  $\mathcal{E}$  $\bowtie$ 7 q  $\infty$ 10 14 6 (3 12 6 4  $\infty$ 3 3 q 9 10 14 6 (3 12 6 4  $\infty$ 

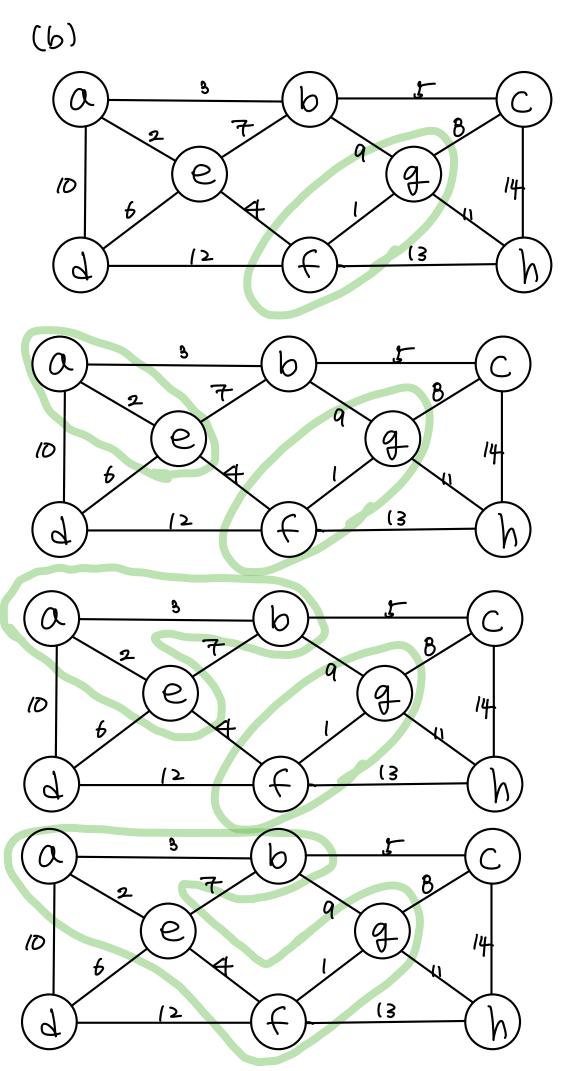


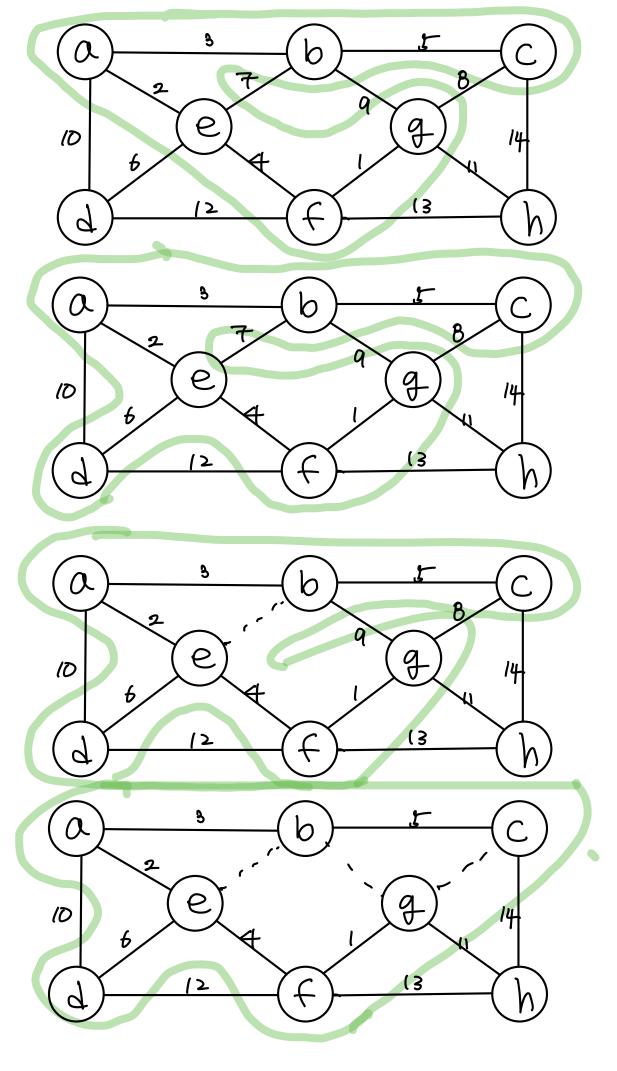


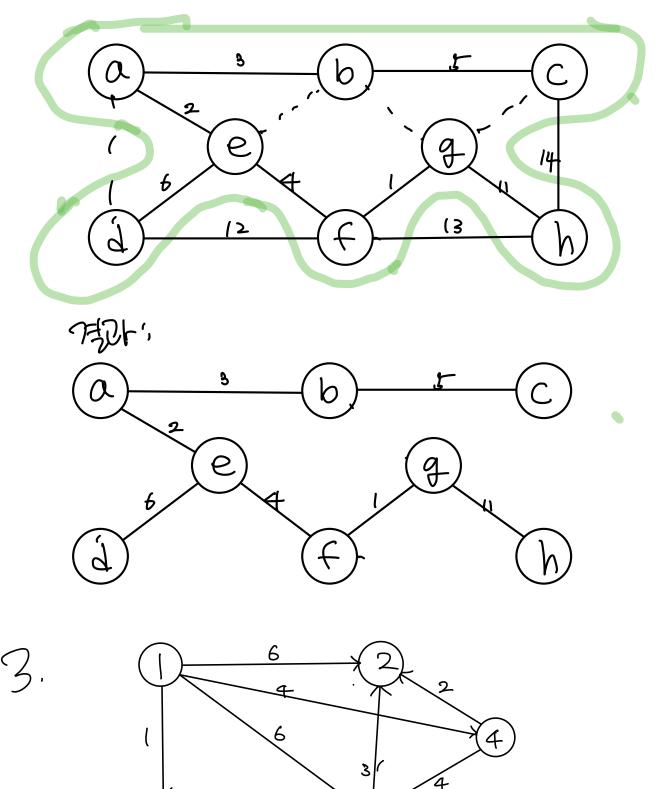


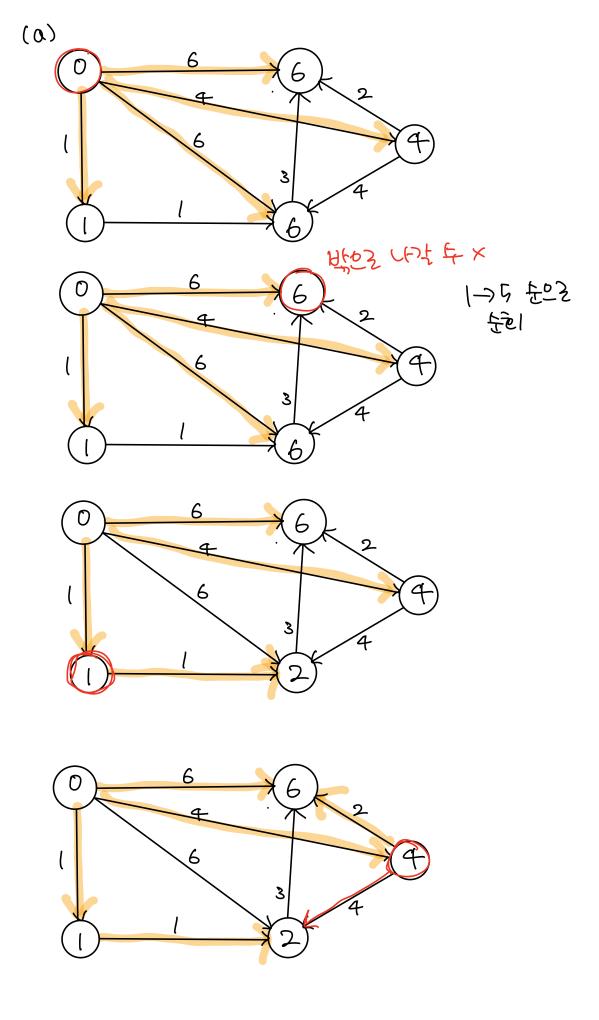
792F.

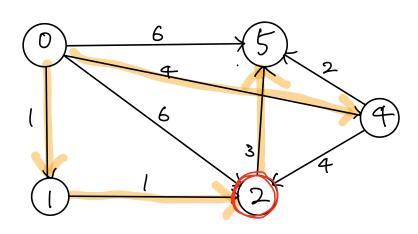






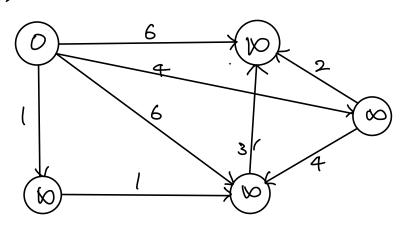




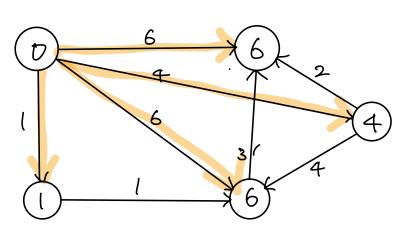


7記: 1→3→5→2 1→3 1→4 1→3→5

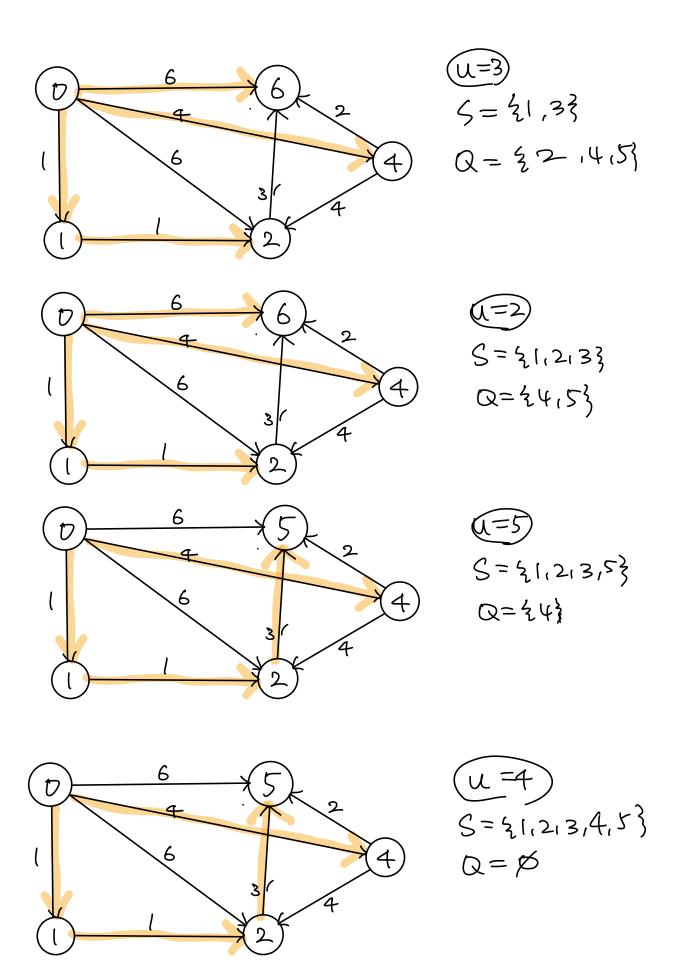
(b) 死机: Nonnegative weight 引(吃至)



$$S = \emptyset$$
 $Q = \{(12,3),4,5\}$ 



$$Q = \{2,3,4,5\}$$



ア型: 1→3-5-12 1-14

$$\begin{array}{c}
(C) \\
(C)$$

$$L^{(2)} = \begin{pmatrix} 0 & 6 & 1 & 4 & 6 \\ 8 & 0 & 8 & 8 & 8 & 8 \\ 8 & 8 & 0 & 8 & 1 \\ 8 & 2 & 8 & 0 & 4 \\ 8 & 3 & 8 & 8 & 0 \end{pmatrix} \begin{pmatrix} 0 & 6 & 1 & 4 & 6 \\ 8 & 0 & 8 & 8 & 8 \\ 8 & 2 & 8 & 0 & 4 \\ 8 & 3 & 8 & 8 & 0 \end{pmatrix}$$

(e)

$$d = \begin{pmatrix} 0 & 6 & 1 & 4 & 6 \\ 8 & 8 & 8 & 8 & 8 \\ 8 & 8 & 0 & 8 & 1 \end{pmatrix} T = \begin{pmatrix} NIL & 1 & 1 & 1 \\ NIL & NIL$$

$$d = \begin{pmatrix} 0 & 6 & 1 & 4 & 6 \\ 1 & 0 & 8 & 8 & 8 \\ 1 & 8 & 0 & 8 & 1 \\ 1 & 8 & 2 & 8 & 0 & 4 \\ 1 & 8 & 2 & 8 & 0 & 0 \end{pmatrix} T = \begin{pmatrix} NIL & I & I & I & I & I \\ NIL & NI$$

$$d = \begin{pmatrix} 0 & 6 & 1 & 4 & 6 \\ 0 & 0 & \infty & \infty & \infty \\ 0 & 0 & \infty & 0 & \infty \\ 0 & 0 & \infty & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1$$

$$d = \begin{pmatrix} 0 & 6 & 1 & 4 & 2 \\ 8 & 0 & 8 & 8 & 8 \\ 8 & 8 & 0 & 8 & 1 \\ 8 & 2 & 8 & 0 & 4 \\ 8 & 3 & 8 & 8 & 0 \end{pmatrix} = \begin{pmatrix} NIL & 1 & 1 & 3 \\ NIL & NI$$

q=pcintrci-in-c // cut 4/12 2117

七にう了=七にシールフナー// いール)のはて せいかと いれのり

/ઇન્ફ લેએ

else

r[i]=8

return r,s

x=[:]=i

0,0,0 1,1,0 2,2,0 38,3,0 49,4,0 11,3,1 617,6,0 17,7,0 20,6,1 24,9,0 030,10,0

인적 고생은 위 pseudo code 는 (P2 구천께 (r,S,+) 는으고 형려한 자이다. (cost=22HZ 7HZ)

九二 4,7,9 MINI COST의 HIBOZ 인해 COT은 하지 않도록 对孔 가 변한 7은 북두 및TL