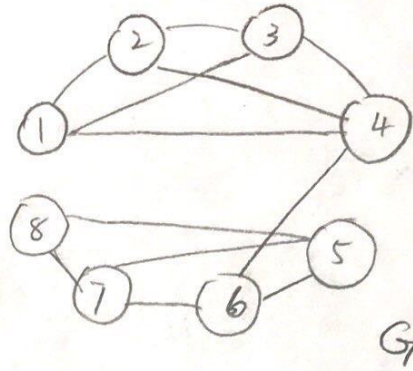


WQ 13

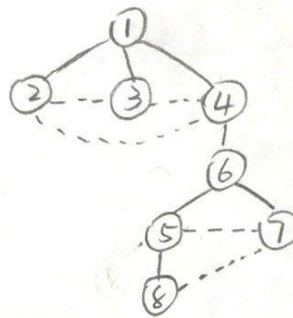
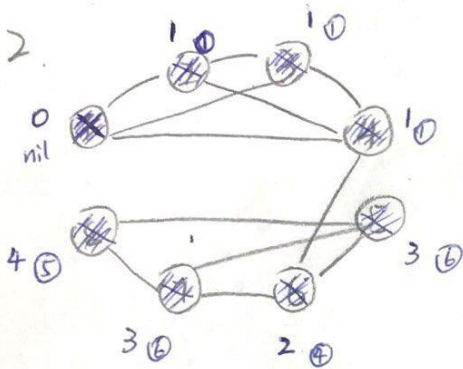
Dong Boyuan 1547489

1.

	1	2	3	4	5	6	7	8
1	0	1	1	1	0	0	0	0
2	1	0	1	1	0	0	0	0
3	1	1	0	1	0	0	0	0
4	1	1	1	0	0	1	0	0
5	0	0	0	0	0	1	1	1
6	0	0	0	1	1	0	1	0
7	0	0	0	0	1	1	0	1
8	0	0	0	0	1	0	1	0

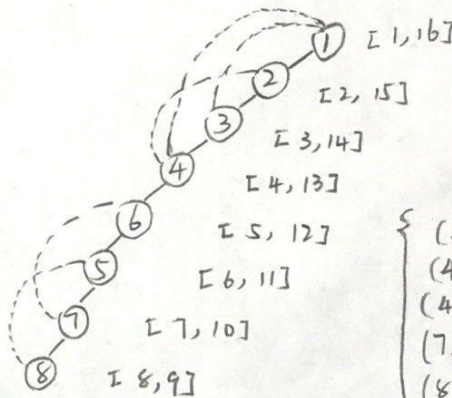
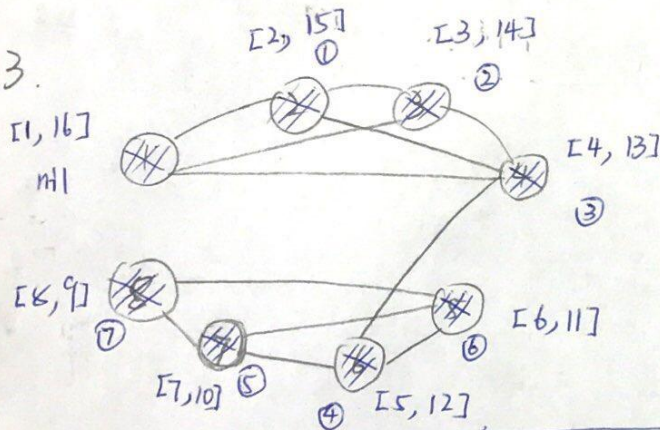


2.



$\left. \begin{matrix} (2,3) \\ (2,4) \\ (3,4) \\ (5,7) \\ (7,8) \end{matrix} \right\}$  cross edge  
 No back-edge

3.



No cross-edge  
 Back-edge:  
 $\left\{ \begin{matrix} (3,1) \\ (4,1) \\ (4,2) \\ (7,6) \\ (8,5) \end{matrix} \right\}$

