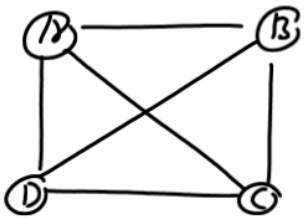
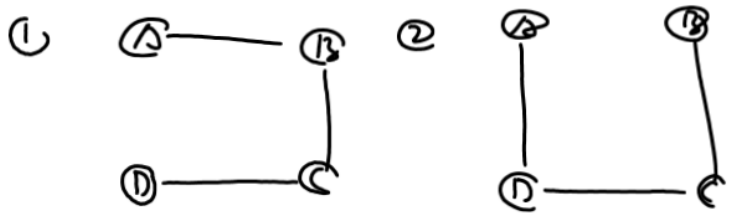
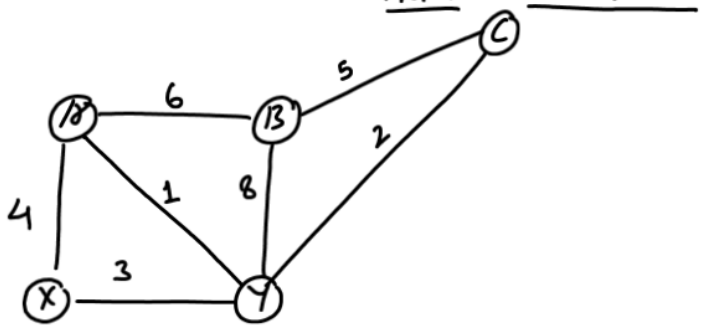
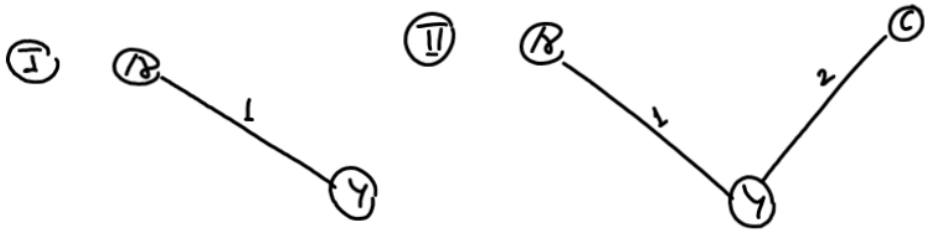
SPANNING TREE



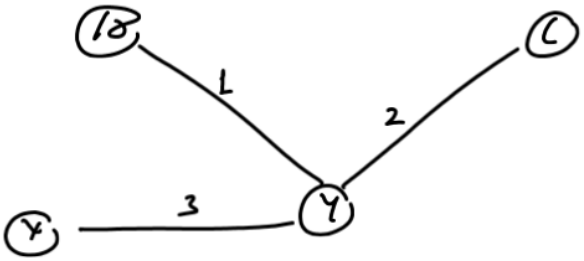


PRIM'S ALGORITHM



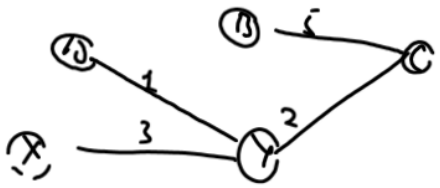


III

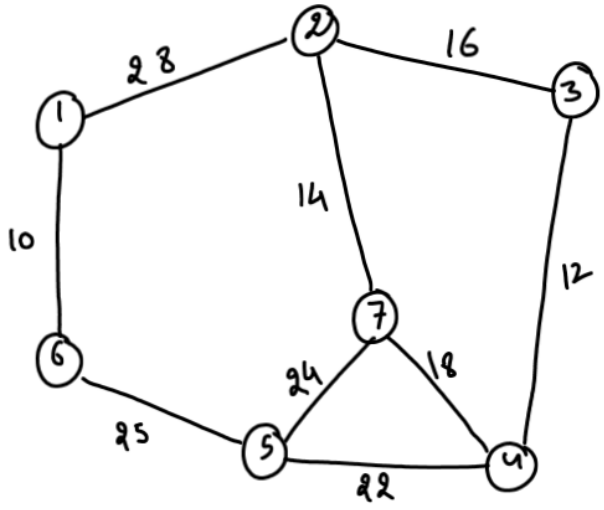


IV Discard 4

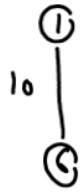
V



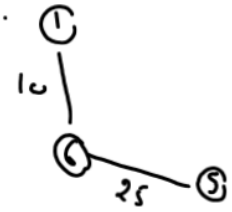
✓ Cost = 11



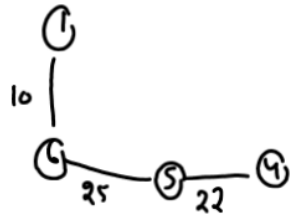
a.



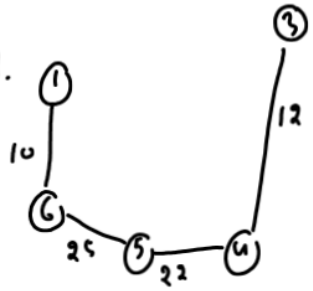
b.



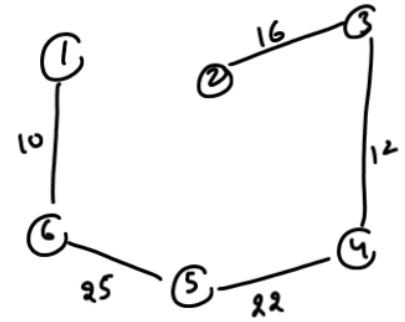
c.



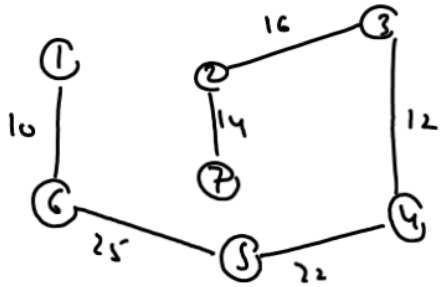
d.



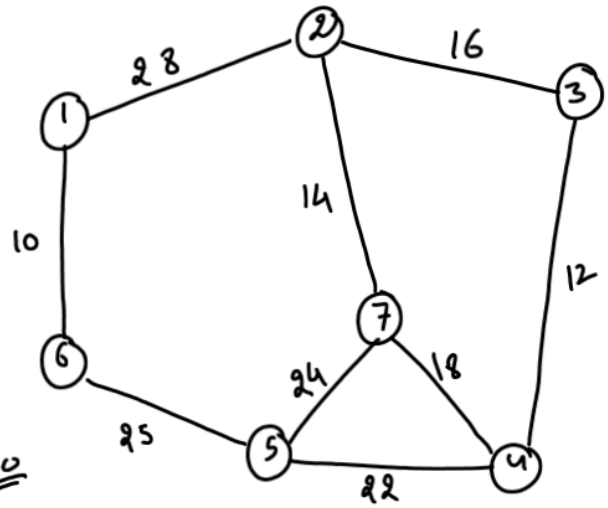
e.



j.



Cost = 99



Cost

	0	1	2	3	4	5	6	7
0								→
1		I	28	I	I	I	10	I
2		28	I	16	I	I	I	14
3		I	16	I	12	I	I	I
4		I	I	12	I	22	I	18
5		I	I	I	22	I	25	24
6		10	I	I	I	25	I	I
7	↓	I	14	I	18	24	I	I

Skyo

	0	1	2	3	4	5	6	7
new	=	0	1	6	6	6	0	6

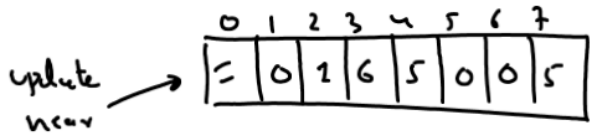
t

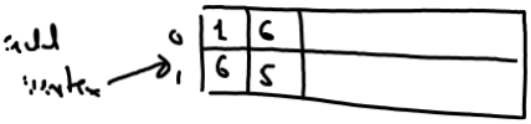
	0	1	2	3	4	5
0	1					
1	6					

Step 1

2,1 : 28
3,6 : I
4,6 : I
5,6 : 25
7,6 : I

Min: 5,6 -> 25

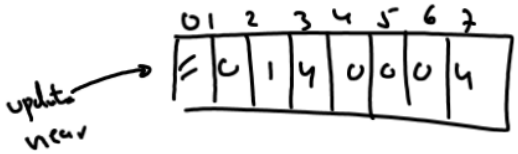


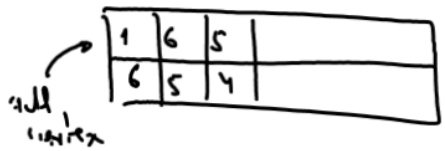


Step 2

2,1 : 28
3,6 : I
4,5 : 22
7,5 : 24

Min = 4,5 -> 22





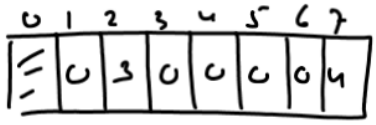
step3

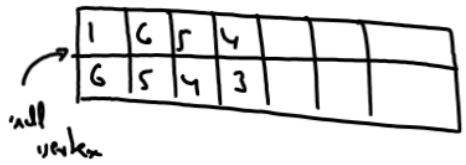
2, 1: 28

3, 4: 12

7, 4: 12

] Min = 3, 4: -> 12



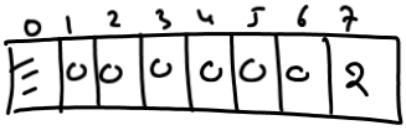


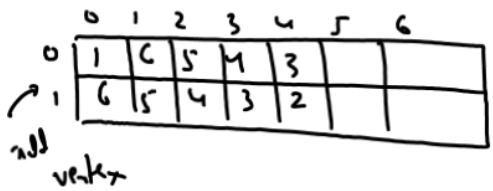
step4

2, 3: 16

7, 4: 18

] Min 2, 3: -> 16





Step 5

7, 7 : 14] Min = 7, 2 : -> 14

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

final spanning tree