

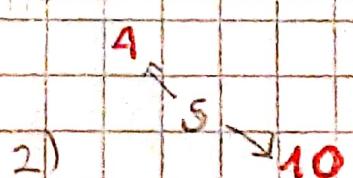
21/12/20

Parcial Final AYED - Juan Camilo Rojas Castro. - 2165690

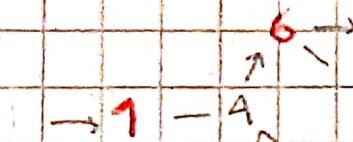
1. G.V: [0, 1, 2, 3, 4, 5, 6, 7, 8, 10, 11] G.E: [(0, 1), (1, 2), (1, 4), (2, 5), (3, 1), (4, 1),
 (4, 6), (6, 7), (7, 8), (8, 2), (6, 8), (8, 6), (3, 4), (3, 5), (3, 11), (1, 2), (1, 10), (11, 10)]
 $S = 5$



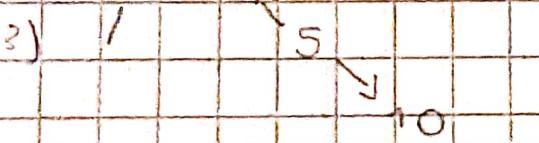
$$Q = [5]$$



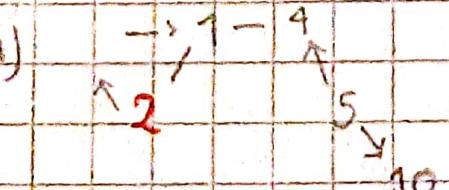
$$Q = [4, 10]$$



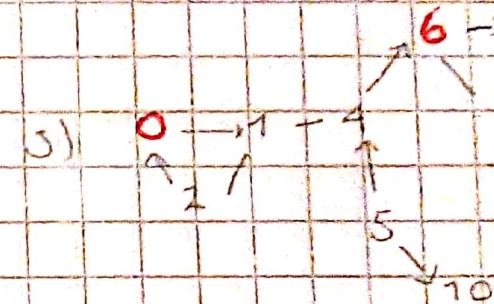
$$Q = [1, 6]$$



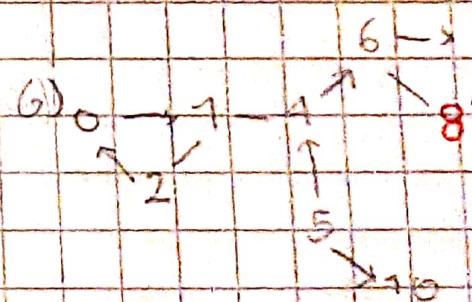
$$Q = [6, 2]$$



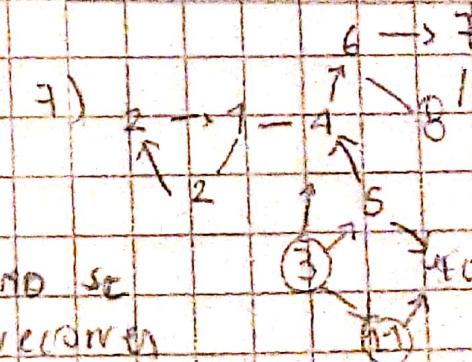
3 y 11 no se
recorren



$$Q = [6, 0]$$



$$Q = [7, 8]$$



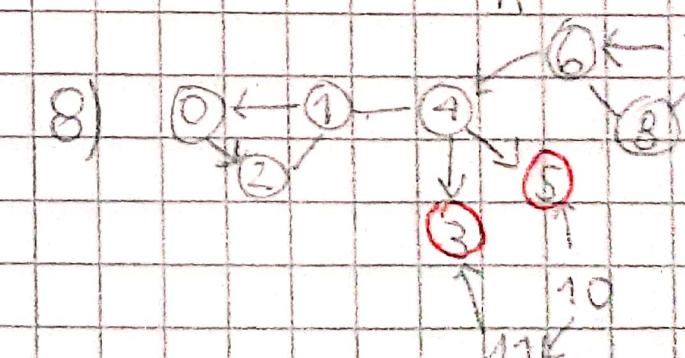
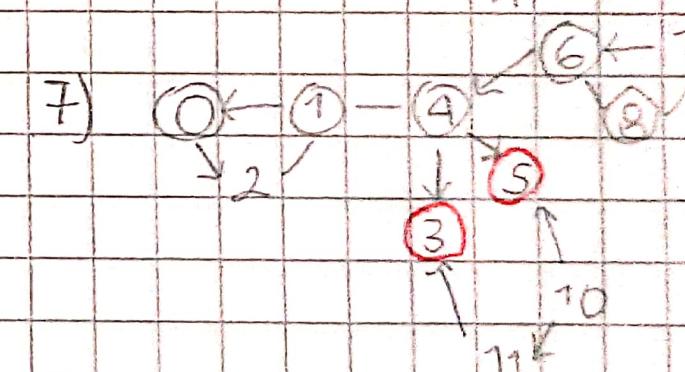
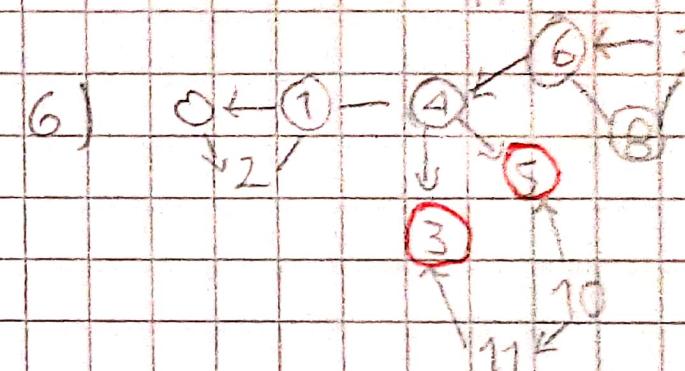
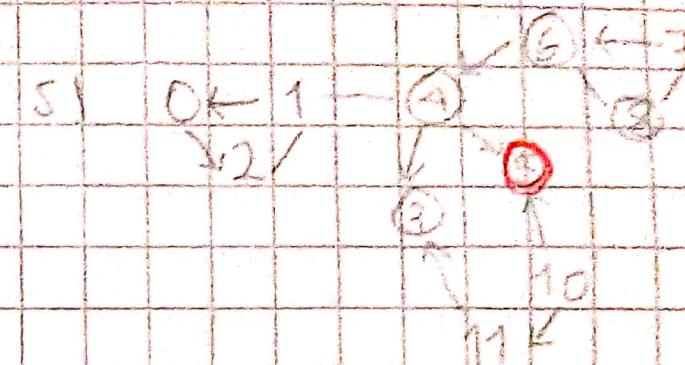
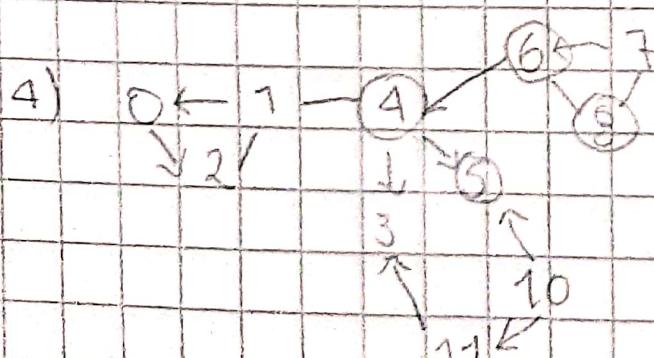
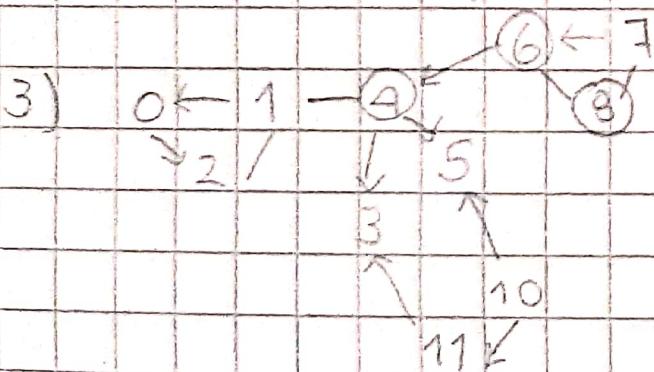
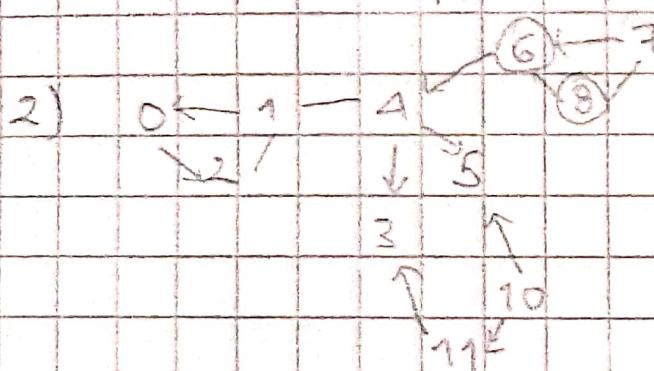
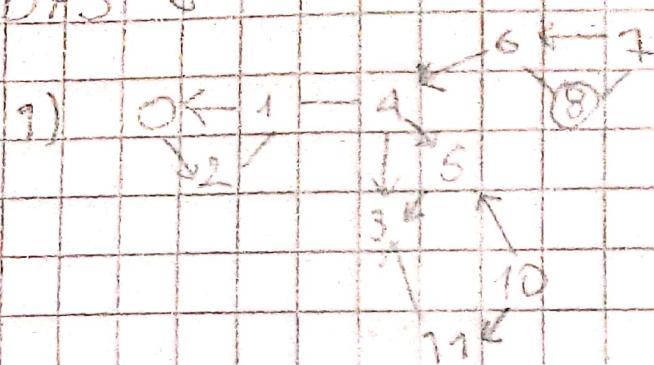
$$Q = [1]$$

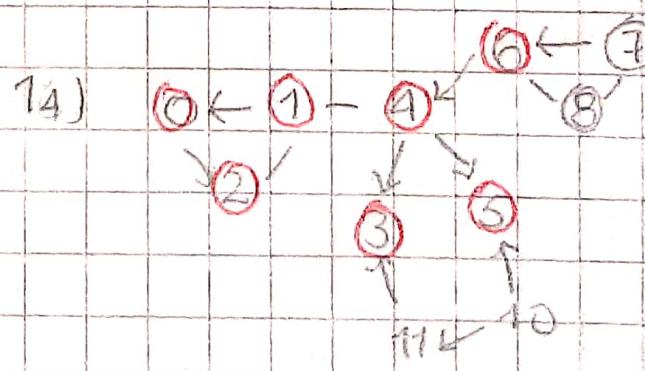
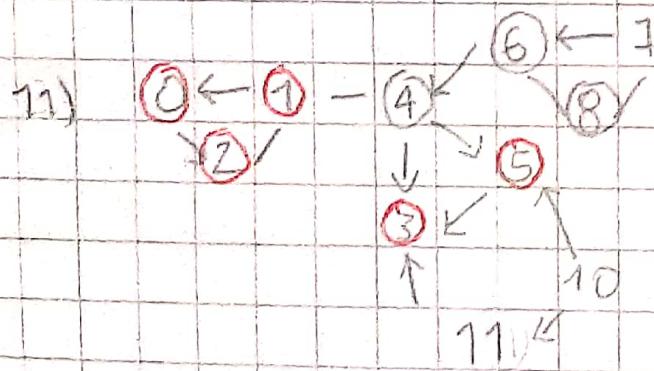
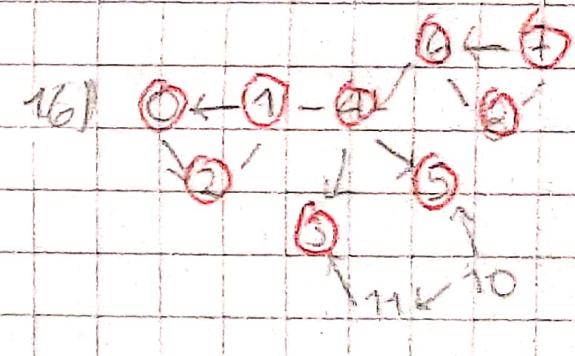
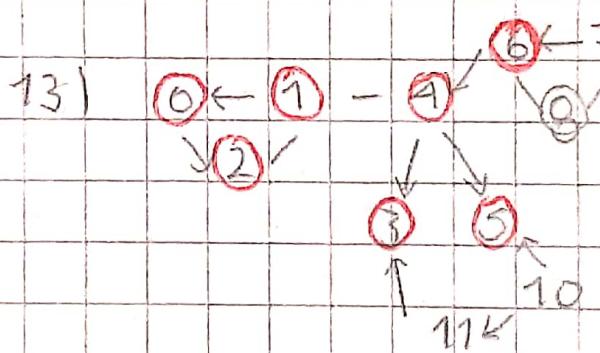
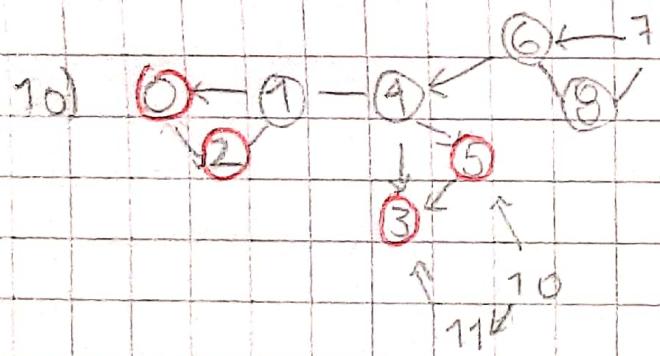
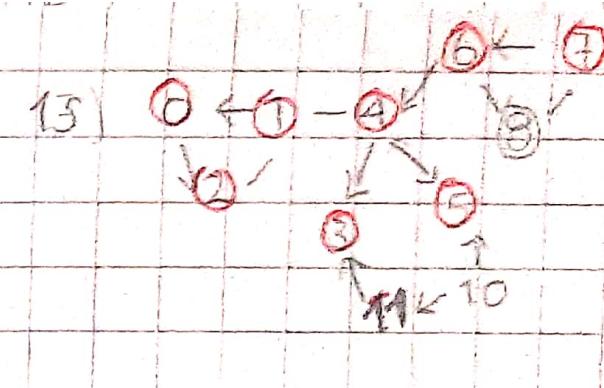
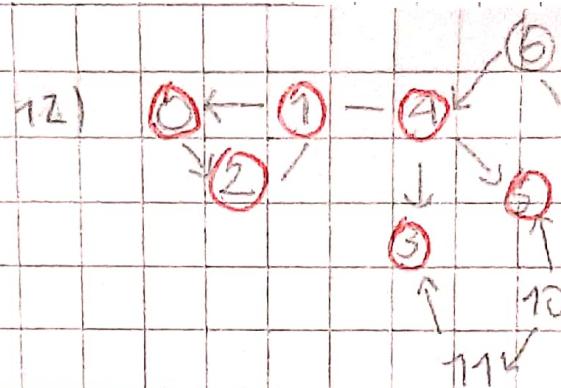
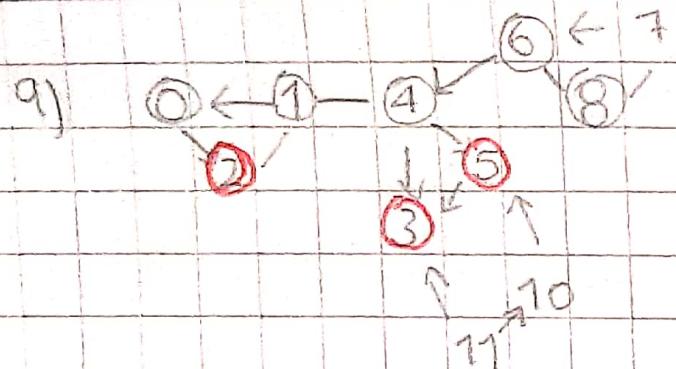
2) Grafo 6:

0	1	2	3	4	5	6	7	8	10	11
0	0	1	0	0	0	0	0	0	0	0
1	0	0	1	0	1	0	0	0	0	0
2	1	1	6	0	0	0	0	0	0	0
3	0	0	0	0	1	1	0	0	0	1
4	0	1	0	0	0	0	1	0	0	0
5	0	0	0	0	1	0	0	0	1	0
6	0	0	0	0	0	0	0	1	1	0
7	0	0	0	0	0	0	0	1	0	0
8	0	0	0	0	0	0	1	1	0	0
10	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	1	0

0	1	2	3	4	5	6	7	8	10	11	- Gratuito de 6T
0	0	0	1	6	0	0	0	0	0	0	
.	
1	1	0	1	0	1	0	0	0	0	0	
.	
2	0	1	0	6	0	0	0	0	0	0	
.	
3	0	0	0	0	0	0	0	0	0	0	
.	
4	0	1	0	1	0	1	0	0	0	0	
.	
5	0	0	0	1	0	0	0	0	0	0	6
.	
6	0	0	0	0	1	0	0	0	1	0	0
.	
7	0	0	0	6	0	0	1	0	1	0	0
.	
8	0	0	0	0	0	0	1	1	0	0	0
.	
10	0	0	0	0	0	1	0	0	0	0	1
.	
11	0	0	0	1	0	0	0	0	0	0	0
.	

DAS 6





11) 10 no
se alcanza a
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$$3) V: \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14\}$$

$$E: \{(1, 2), (1, 11), (2, 11), (1, 7), (7, 11), (3, 4), (4, 6), (6, 5), (6, 10), (2, 3), (9, 10), (10, 11), (11, 8), (8, 7), (7, 11)\}$$

$$S = \{\{1, 5, 3, 2, 6, 3\}, \{7, 3, 4, 2, 3\}, \{1, 7, 3\}, \{8, 3, 4, 9, 3, 4, 10, 3, 4, 11, 3, 4, 3, 3\}, \{9, 3, 4, 5, 3, 4, 6, 3, 4, 7, 3\}\}$$

$$S = \{\{1, 5, 7, 6, 3\}, \{2, 1, 3, 2, 2, 3\}, \{1, 7, 3\}, \{2, 8, 3, 2, 9, 3, 2, 10, 3, 2, 11, 3, 2, 3, 3\}, \{2, 9, 3, 2, 5, 3, 4, 6, 3, 4, 7, 3\}\}$$

$$S = \{\{1, 5, 1, 6, 3\}, \{2, 1, 2, 3, 2, 1, 3, 3, 2, 8, 3, 2, 9, 3, 2, 10, 3, 2, 11, 3, 2, 3, 3, 2, 4, 3, 2, 5, 3, 2, 6, 3, 2, 7, 3\}\}$$

$$S = \{\{1, 5, 1, 6, 3\}, \{4, 1, 2, 1, 7, 3\}, \{2, 8, 3, 2, 9, 3, 2, 10, 3, 2, 11, 3, 2, 3, 3, 2, 4, 3, 2, 5, 3, 2, 6, 3, 2, 7, 3\}\}$$

$$S = \{\{1, 5, 1, 6, 3\}, \{2, 1, 2, 1, 7, 3\}, \{2, 8, 3, 2, 9, 3, 2, 10, 3, 2, 11, 3, 2, 3, 3, 2, 4, 3, 2, 5, 3, 2, 6, 3, 2, 7, 3\}\}$$

$$S = \{\{1, 5, 1, 6, 3\}, \{2, 1, 2, 1, 7, 3\}, \{2, 8, 3, 2, 9, 3, 2, 10, 3, 2, 11, 3, 2, 3, 3, 2, 4, 3, 2, 5, 3, 2, 6, 3, 2, 7, 3\}\}$$

$$S = \{\{1, 5, 1, 6, 3\}, \{2, 1, 2, 1, 7, 3\}, \{2, 8, 3, 2, 9, 3, 2, 10, 3, 2, 11, 3, 2, 3, 3, 2, 4, 3, 2, 5, 3, 2, 6, 3, 2, 7, 3\}\}$$

$$S = \{\{1, 5, 1, 6, 3\}, \{2, 1, 2, 1, 7, 3\}, \{2, 8, 3, 2, 9, 3, 2, 10, 3, 2, 11, 3, 2, 3, 3, 2, 4, 3, 2, 5, 3, 2, 6, 3, 2, 7, 3\}\}$$

$$S = \{\{1, 5, 1, 6, 3\}, \{2, 1, 2, 1, 7, 3\}, \{2, 8, 3, 2, 9, 3, 2, 10, 3, 2, 11, 3, 2, 3, 3, 2, 4, 3, 2, 5, 3, 2, 6, 3, 2, 7, 3\}\}$$

$$S = \{\{1, 5, 1, 6, 3\}, \{2, 1, 2, 1, 7, 3\}, \{2, 8, 3, 2, 9, 3, 2, 10, 3, 2, 11, 3, 2, 3, 3, 2, 4, 3, 2, 5, 3, 2, 6, 3, 2, 7, 3\}\}$$

$$S = \{\{1, 5, 1, 6, 3\}, \{2, 1, 2, 1, 7, 3\}, \{2, 8, 3, 2, 9, 3, 2, 10, 3, 2, 11, 3, 2, 3, 3, 2, 4, 3, 2, 5, 3, 2, 6, 3, 2, 7, 3\}\}$$

4) • Camino mínimo de s a t :

$[s, y, t]$ con peso de 8 .

• Camino mínimo de s a y :

$[s, y]$ con peso de 5 .

• Camino mínimo de s a x :

$[s, y, t, x]$ con peso de 9 .

• Camino mínimo de s a z :

$[s, y, z]$ con peso de 7 .

5. Falsa

V Verdadera

V Verdadera

6. • Camino mínimo de 0 a 1:

[0, 1] con un peso de 5

• Camino mínimo de 0 a 2.

[0, 1, 2] con un peso de 6.

• Camino mínimo de 0 a 3.

[0, 1, 6, 3] con un peso de 9.

• Camino mínimo de 0 a 4.

[0, 1, 6, 5, 4] con un peso de 9.

• Camino mínimo de 0 a 5.

[0, 1, 6, 5] con un peso de 7.

• Camino mínimo de 0 a 6.

[0, 1, 6] con un peso de 7.