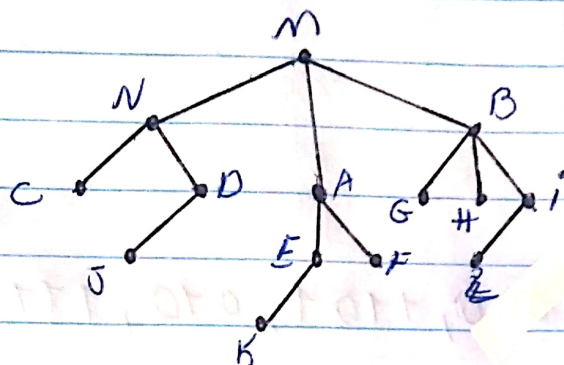Aluno: Edilson do N. Costa júnior   Matrícula: 211080101

Pré-O: m, N, C, D, J, A, E, K, F, B, G, H, i, 2.
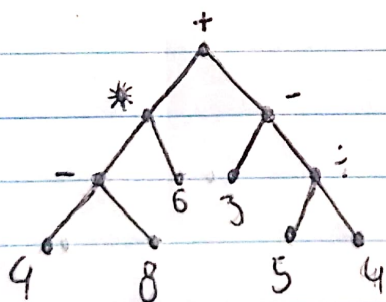OS: C, N, J, D, m, K, E, A, F, G, B, H, 2, i.
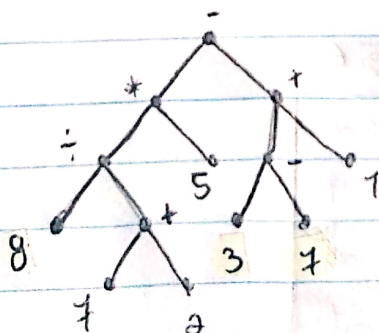Pós-O: C, J, D, N, K, E, F, A, G, H, 2, i, B, m.

a) a) [(4-8)·6] + [3-(5÷4)]
b) {[8÷(7+2)]·5} - [(3-7)+1]

a)

b)

3)
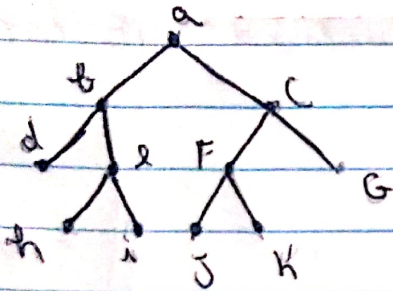
4) 1101, 00, 1001, 1000, 1101, 010, 111, 010, 1101, 1000, 1001, 00, 1100

OLAVO - É - OVAL!

5)
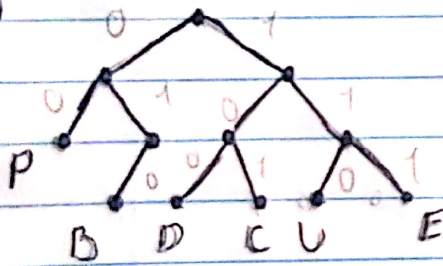
B - 010
C - 101
D - 100
E - 111
P - 00
U - 110

6) Galo e Gato

1 1 1 2 2 2 2
E L I a G O -
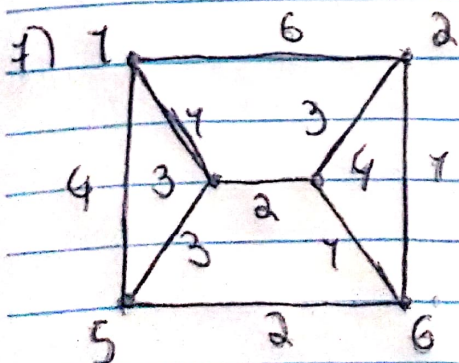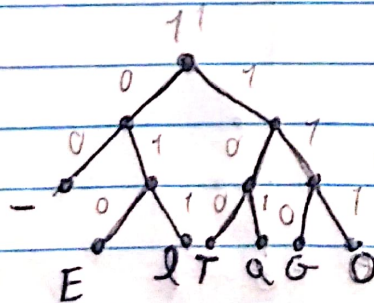
E   l T a G O

7)

	1	2	3	4	5	6
1	∞	6	1	∞	4	∞
2	6	∞	∞	3	∞	1
A1= 3	1	∞	∞	2	3	∞
4	∞	3	2	∞	∞	1
5	4	∞	3	∞	∞	2
6	∞	1	∞	1	2	∞

$DZ=$

Z	1	2	3	4	5	6
	0	6	4	∞	4	∞
	0	6	4	3	4	∞
	0	6	4	3	4	4
	0	6	4	3	4	4

$SZ=$

	1	2	3	4	5	6
	-	1	1	1	1	1
	-	1	1	3	4	1
	-	1	1	3	1	4
	-	6	1	3	1	4

Caminho mínimo: 1-3-4-6
Comprimento c.m. : 4
IN: (1, 3, 4, 6)

$P = 3$
$d_2 = min(6, 1+∞) = 6$
$d_4 = min(∞, 1+2) = 3$
$d_5 = min(4, 1+3) = 4$
$d_6 = min(∞, 1+∞) = ∞$

$P = 4$
$d_2 = min(6, 3+3) = 6$
$d_5 = min(4, 3+∞) = 4$
$d_6 = min(∞, 3+1) = 4$

$P = 6$
$d_2 = min(6, 4+1) = 5$
$d_5 = min(4, 4+2) = 4$

8)

$A_0 =$

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

$A_1 =$

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

$A_2 =$

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

$A_3 =$

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

$A_4 =$

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

$A_5 =$

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

$A_6 =$

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

Os pontos 2, 3 não podem ser acessados a partir do ponto 2.