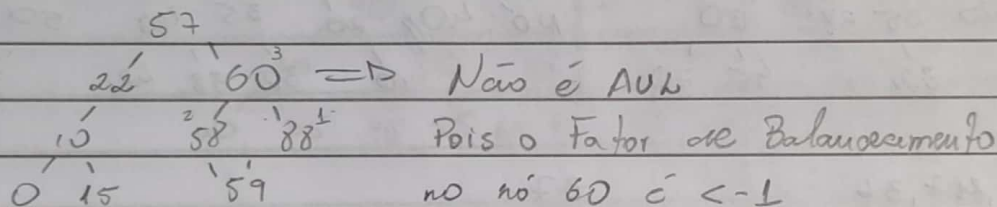
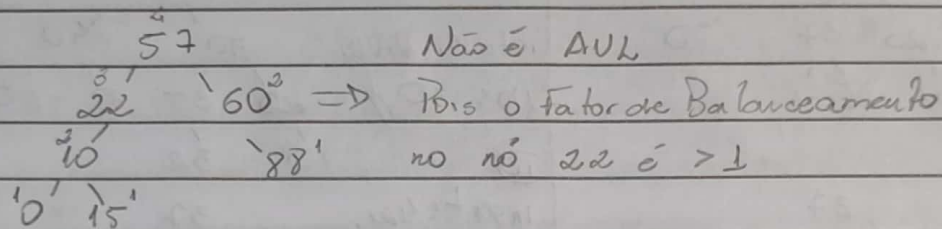


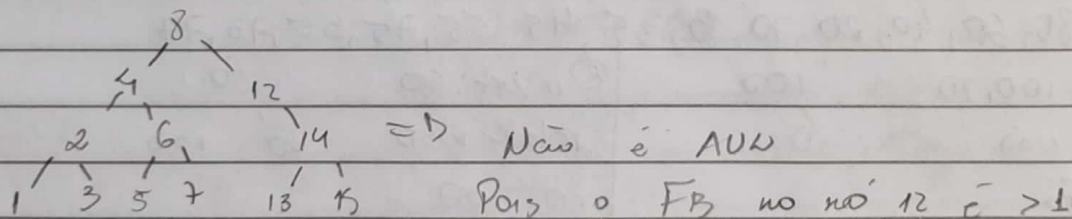
Exercício - Aula 06

Árvore AVL

Questão 01º



$57 \Rightarrow$ É AVL
 Pois está balanceada.



Questão 2º

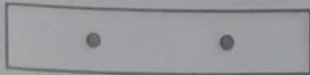
a) 30, 30, 20, 70, 40, 35, 37, 38, 10, 32, 45, 42, 25, 47, 36

① insert: 50, 30
 rotate: Não
 nó: Não

② insert: 20
 rotate: RSD
 nó: 50 //

③ insert: 70, 40
 rotate: Não
 nó: Não

④ insert: 35
 rotate: RDE
 nó: 40 //



D S T Q Q S S

⑤ insert: 37
rotac: NÃO
Nó: NÃO
40
30 50
20 35 70
37

⑥ insert: 38
rotac: RSE
Nó: 35
40
30 50
20 37 70
35 38

⑦ insert: 10
rotac: NÃO
Nó: NÃO
40
30 50
20 37 70
10 35 38

⑧ insert: 32
rotac: RDR
Nó: 30
40
30 50
20 35 38 70
10 32

⑨ insert: 45
rotac: NÃO
Nó: NÃO
40
30 50
20 35 38 70
10 32 45 70

⑩ insert: 42
rotac: RDS
Nó: 40
40
30 50
20 35 40 70
10 32 38 42 70

⑪ insert: 25, 47, 36
rotac: NÃO
FIM EXECUÇÃO
37
30 45
20 35 40 50
10 25 32 38 42 47 70

b) 100, 80, 60, 40, 20, 70, 30, 35, 45, 55, 75, 65, 73, 77

① insert: 100, 70
rotac: NÃO
Nó: NÃO
100
80

② insert: 60
rotac: RSD
Nó: 100
80
60 100

③ insert: 40
rotac: NÃO
Nó: NÃO
80
60 100
40

④ insert: 20
rotac: RSD
Nó: 60
80
40 100
20 60

⑤ insert: 70
rotac: RDE
Nó: 80
60
40 80
20 70 100

⑥ insert: 30
rotac: RDR
Nó: 40
60
80 80
20 40 70 100

⑦ insert: 50, 35
rotac: NÃO
Nó: NÃO
60
30 80
20 40 70 100
35 50

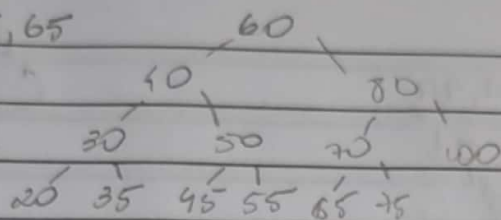
⑧ insert: 45
rotac: RSE
Nó: 40
60
40 80
20 35 45 70 100

D S T Q Q S S

① insert: 55, 25, 65

rotate: NÃO

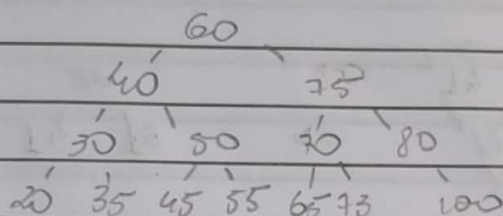
nó: NÃO



② insert: 73

rotate: RDD

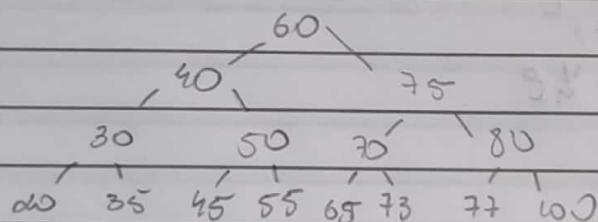
nó: 80



③ insert: 77

rotate: NÃO

nó: NÃO



FIM EXECUÇÃO

Questão 3:

M, G, B, H, S, D, F, C

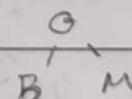
① insert: M, G



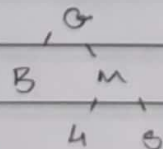
② insert: B

rotate: RSD

nó: M



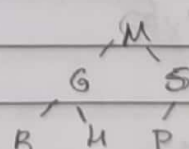
③ insert: H, S



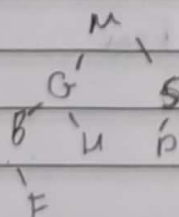
④ insert: D

rotate: RSE

nó: M



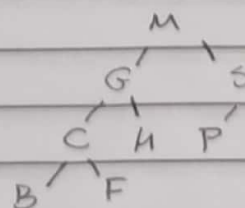
⑤ insert: F



insert: C

rotate: RDE

nó: B



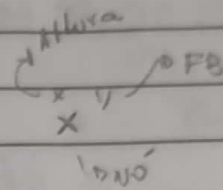
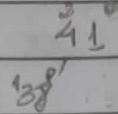


D S T Q Q S S

Questão 40

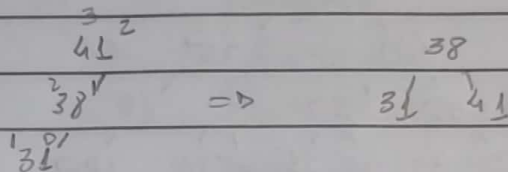
① 41, 38, 31, 12, 19, 8, 27, 49

insert: 41, 38

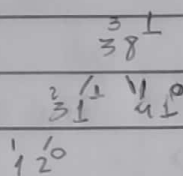


② insert: 31

rotac: RSD

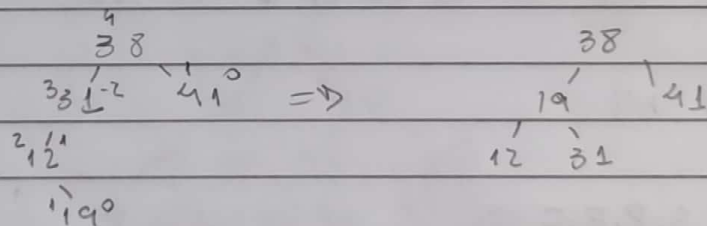


③ insert: 12



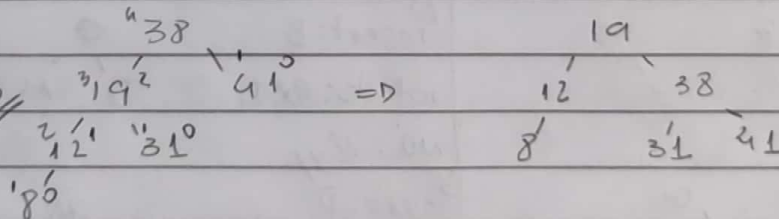
④ insert: 19

rotac: RSD



⑤ insert: 8

rotac: RSD



⑥ insert: 27, 49

