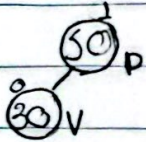


# Arvore Red black

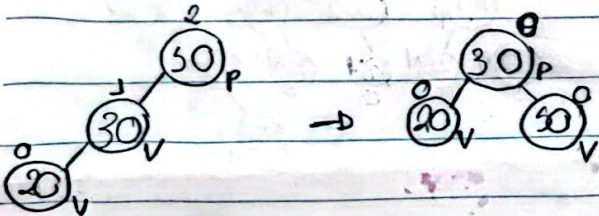
Inserindo 50



Inserindo 30

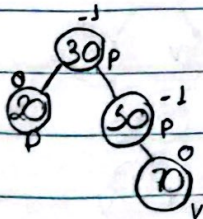


Inserindo 20

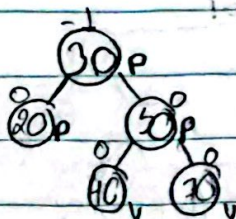


Rotação simples Direita

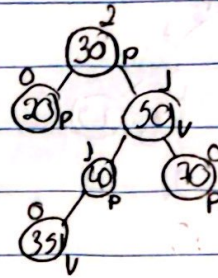
Inserindo 70



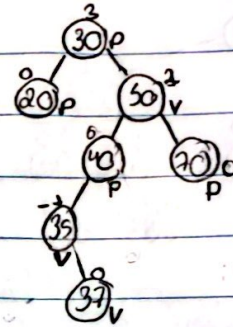
Inserindo 40



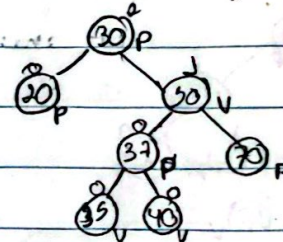
Inserindo 35



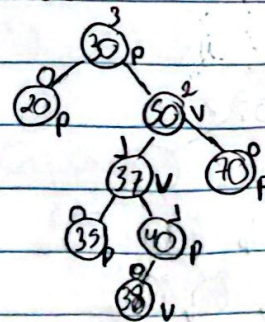
Inserindo 37



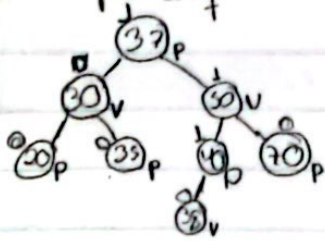
Rotação simples Direita



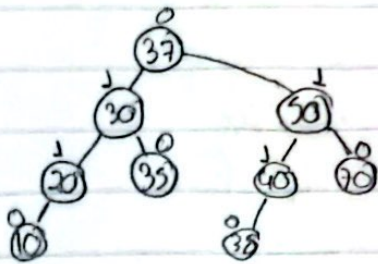
Inserindo 38



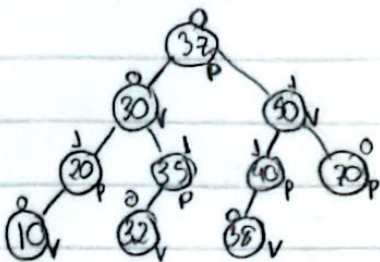
Rotações dupla ang



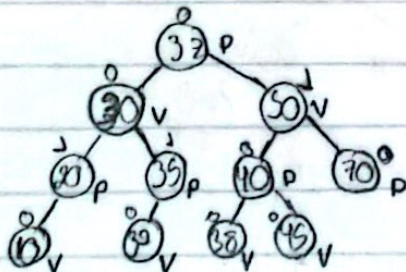
Inserindo 10



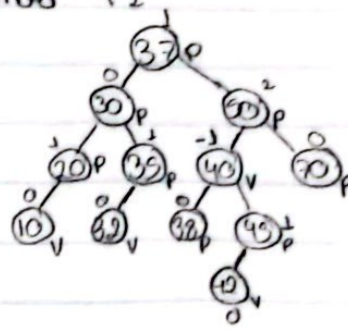
Inserindo 32



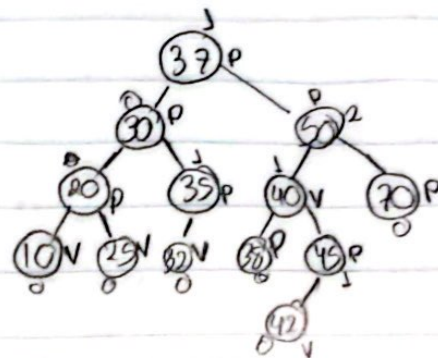
Inserindo 45



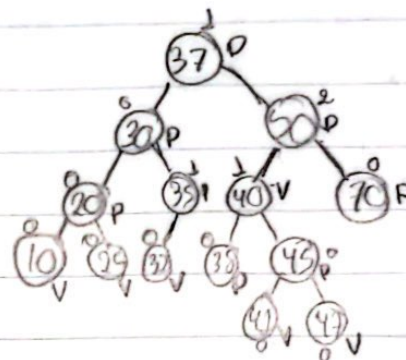
Inserindo 42



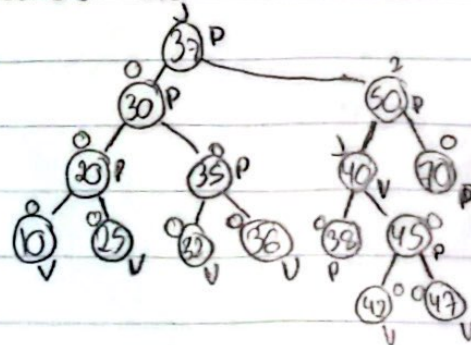
Inserindo 25



Inserindo 47

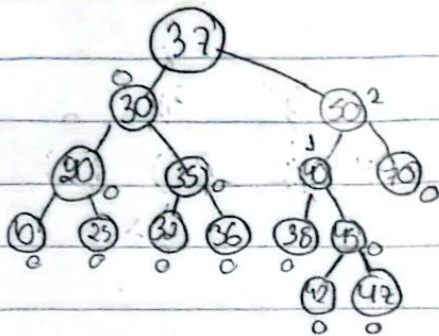


Inserindo 36

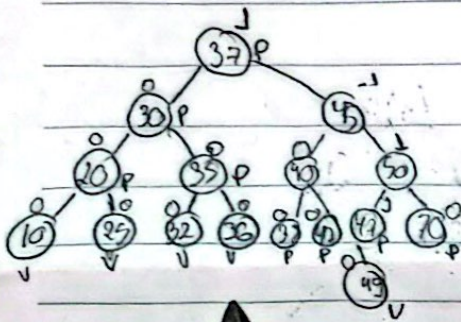




Insere 49

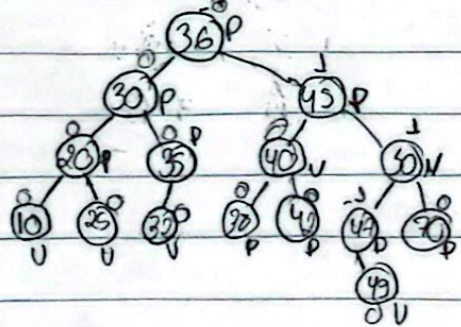


Rotação dupla esq.

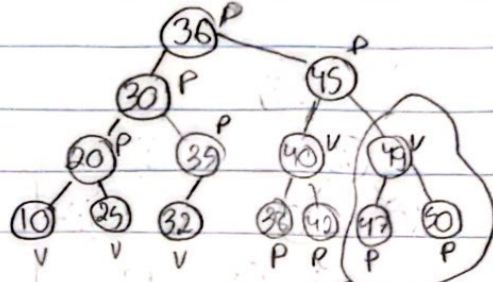


Resultado

2. Removendo 37

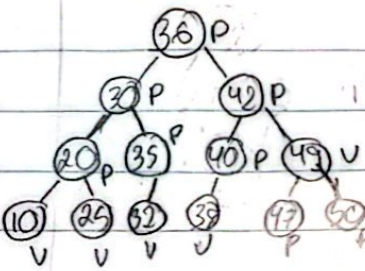


Removendo 20

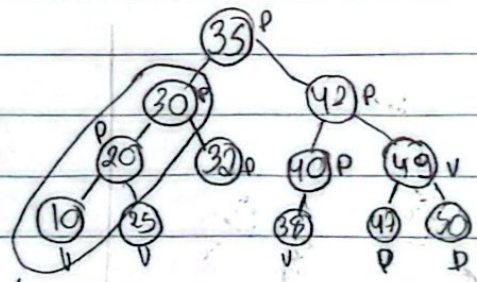


precisa uma rotação dupla

Removendo 45



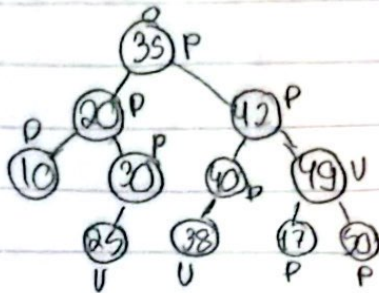
Removendo 36



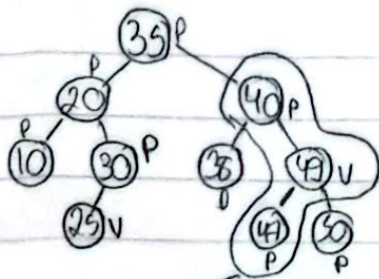
rotação simples direita



Removendo o 32



Removendo o 42



notação simples

Removendo o 40

