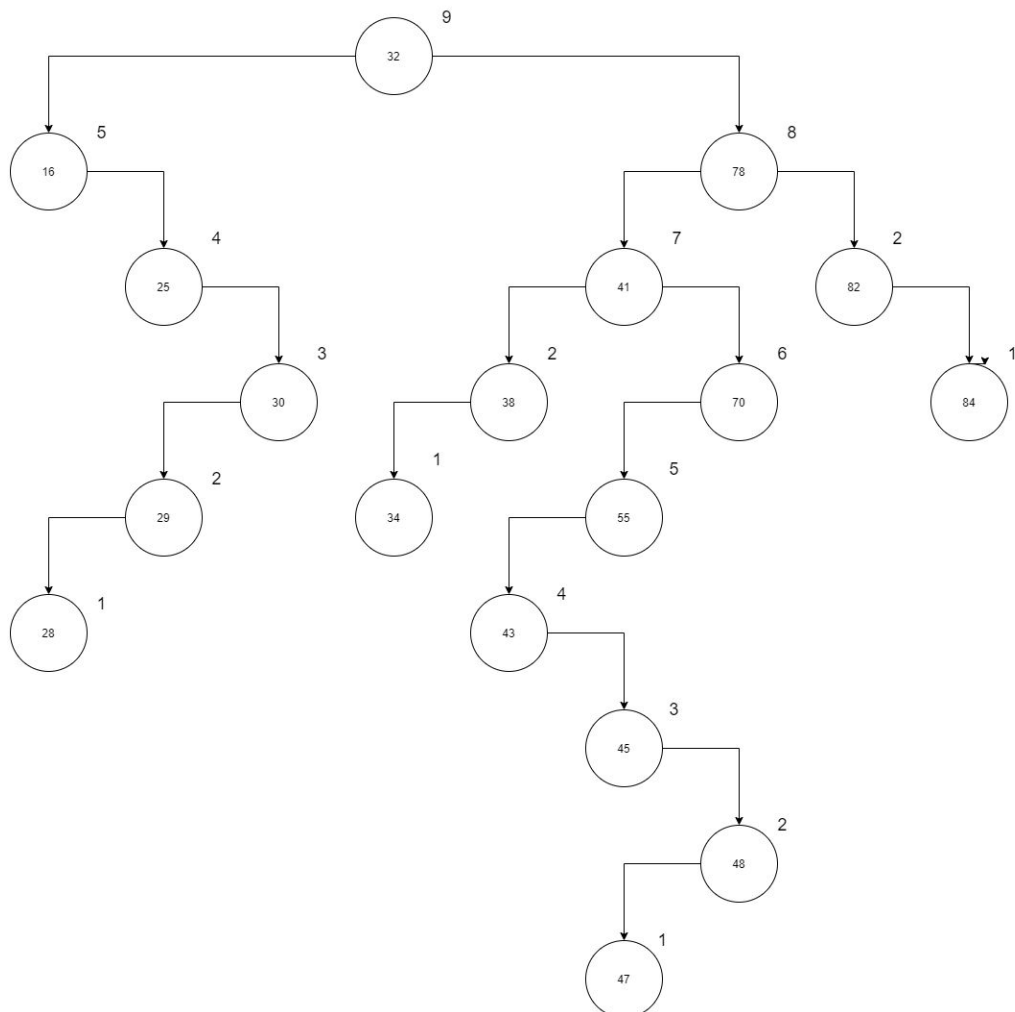


TPO Enunciado 3

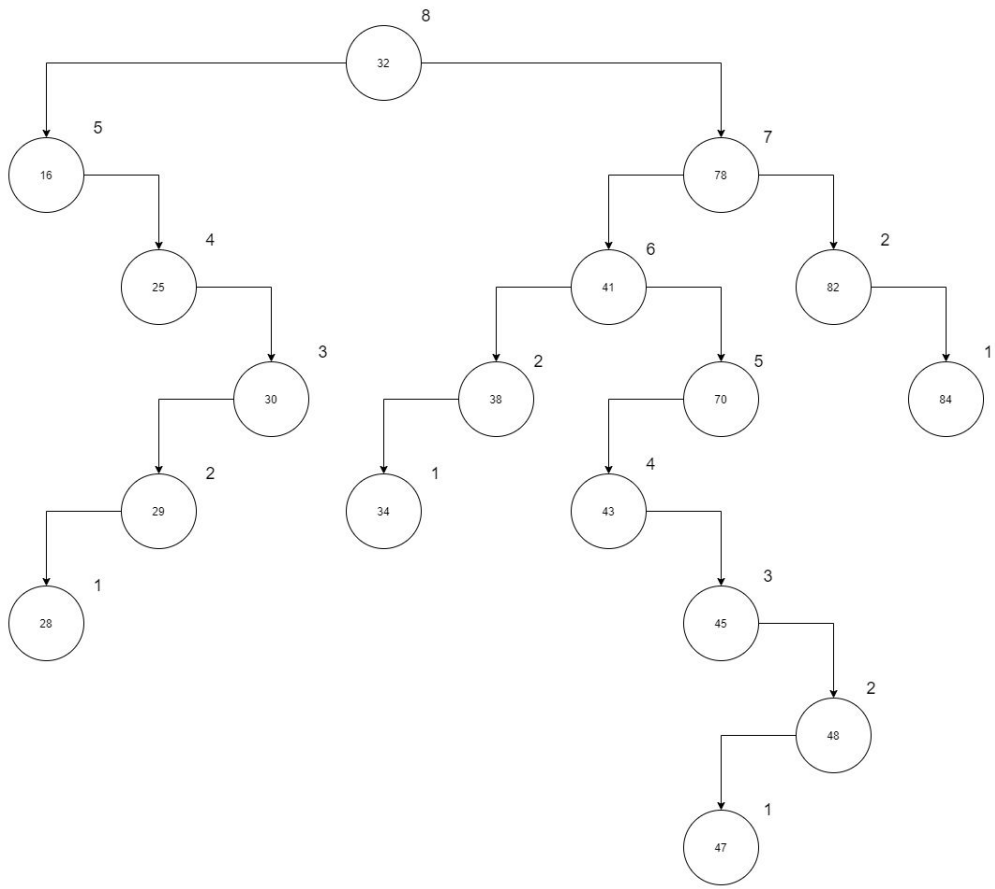
1. Para cada uno de los árboles vacíos ABB , AVL, B vacío, realizar la siguiente secuencia de operaciones

a. ABB

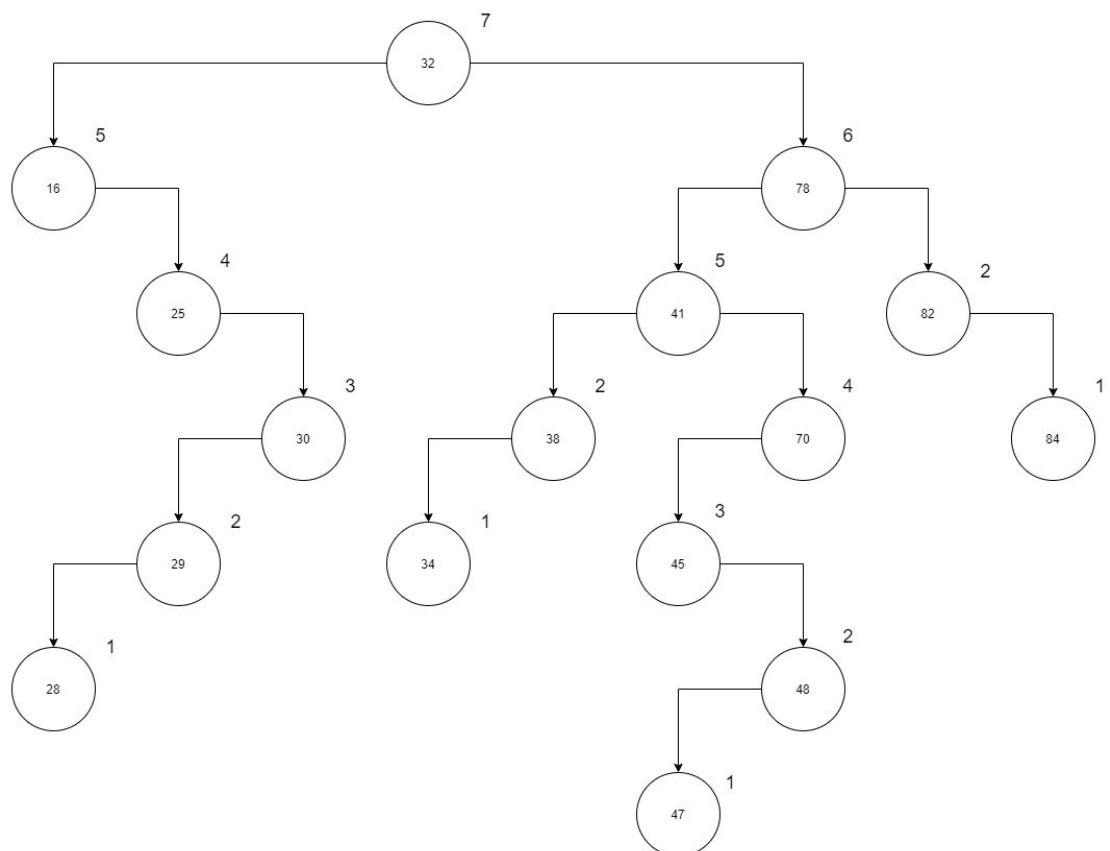
Agregar: 32, 78, 41, 70, 16, 55, 43, 38, 25, 82, 45, 34, 30, 29, 48, 28, 47, 84



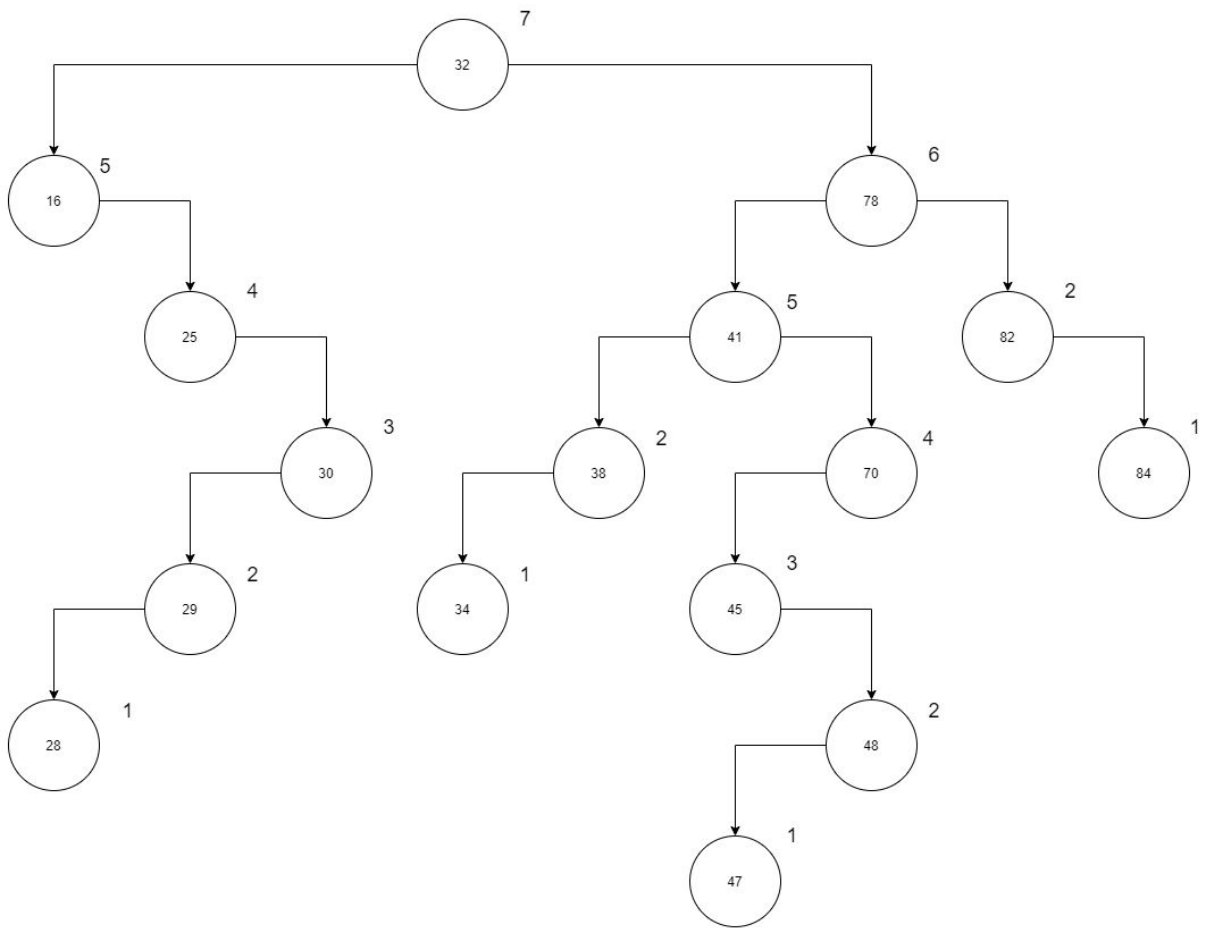
Eliminar 55



Eliminar 43



Eliminar 40



Eliminar 48

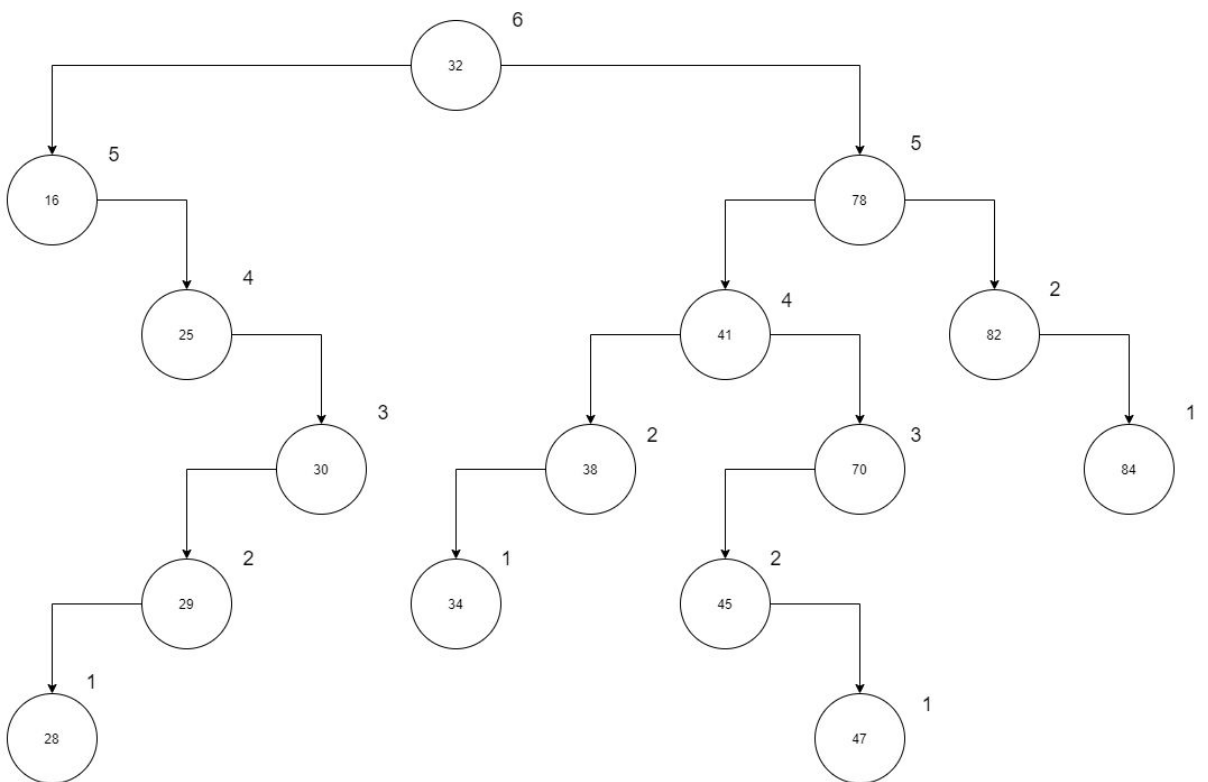
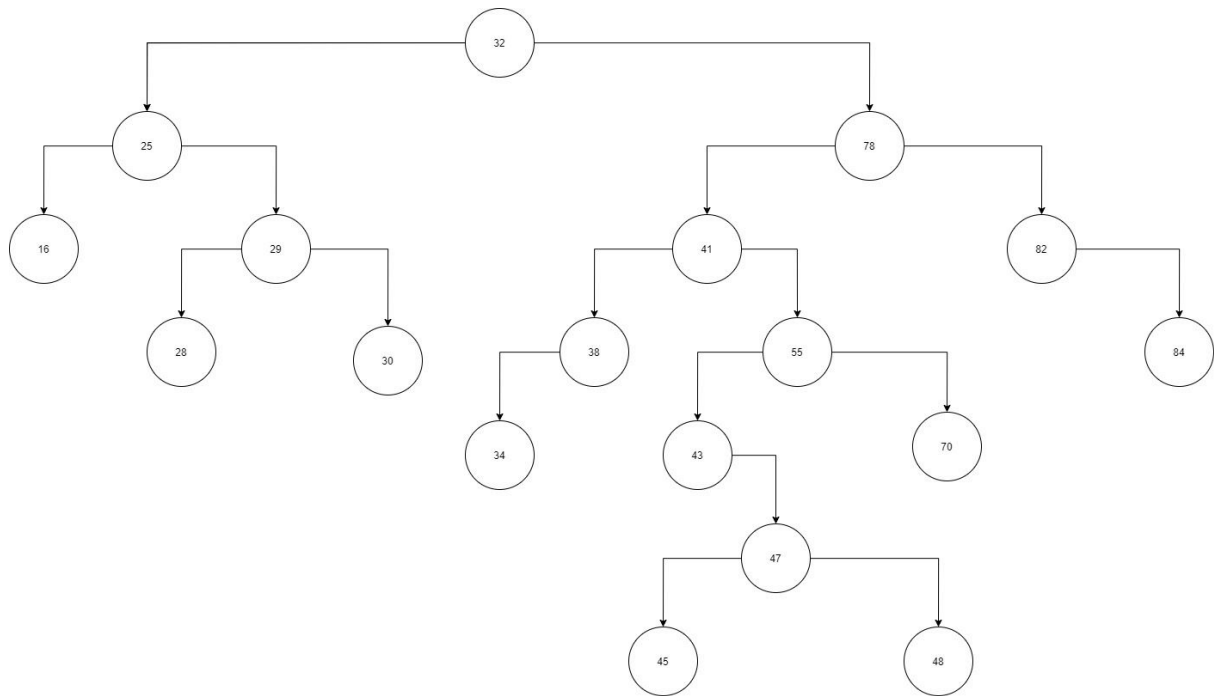
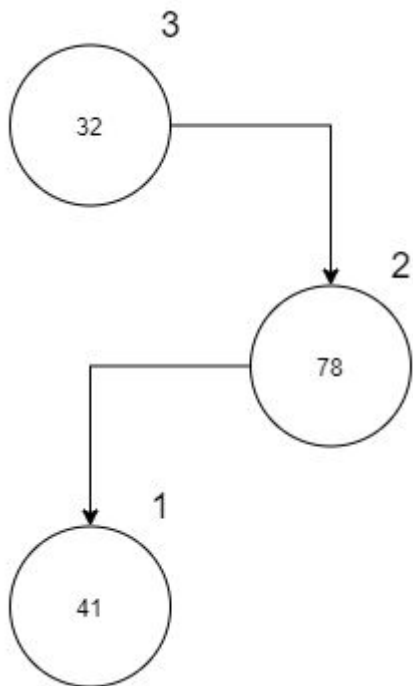


ABB balanceado

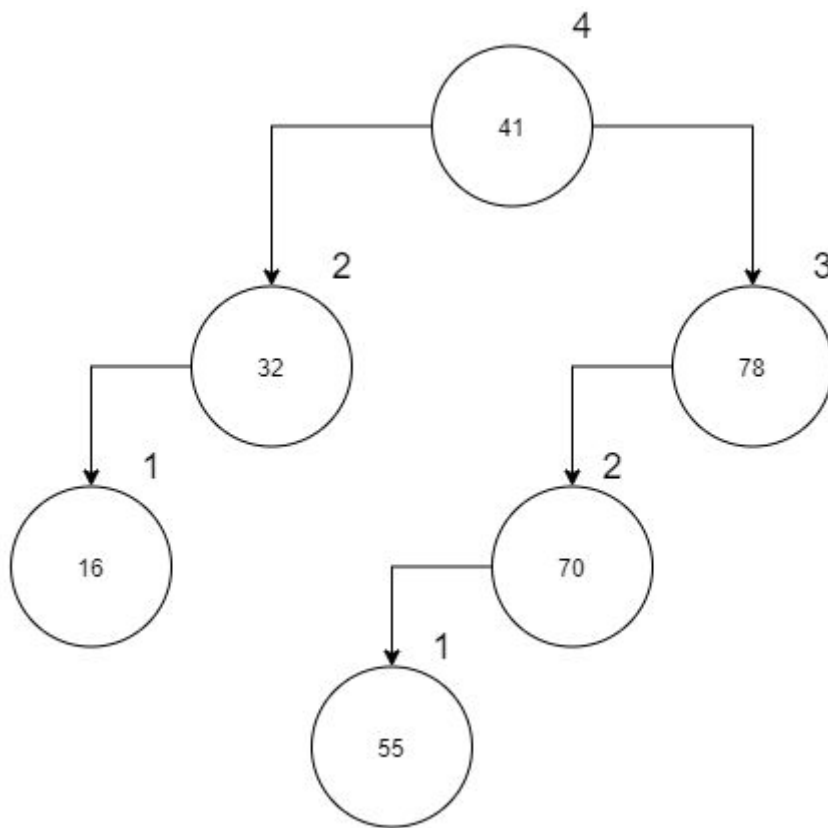


b. AVL

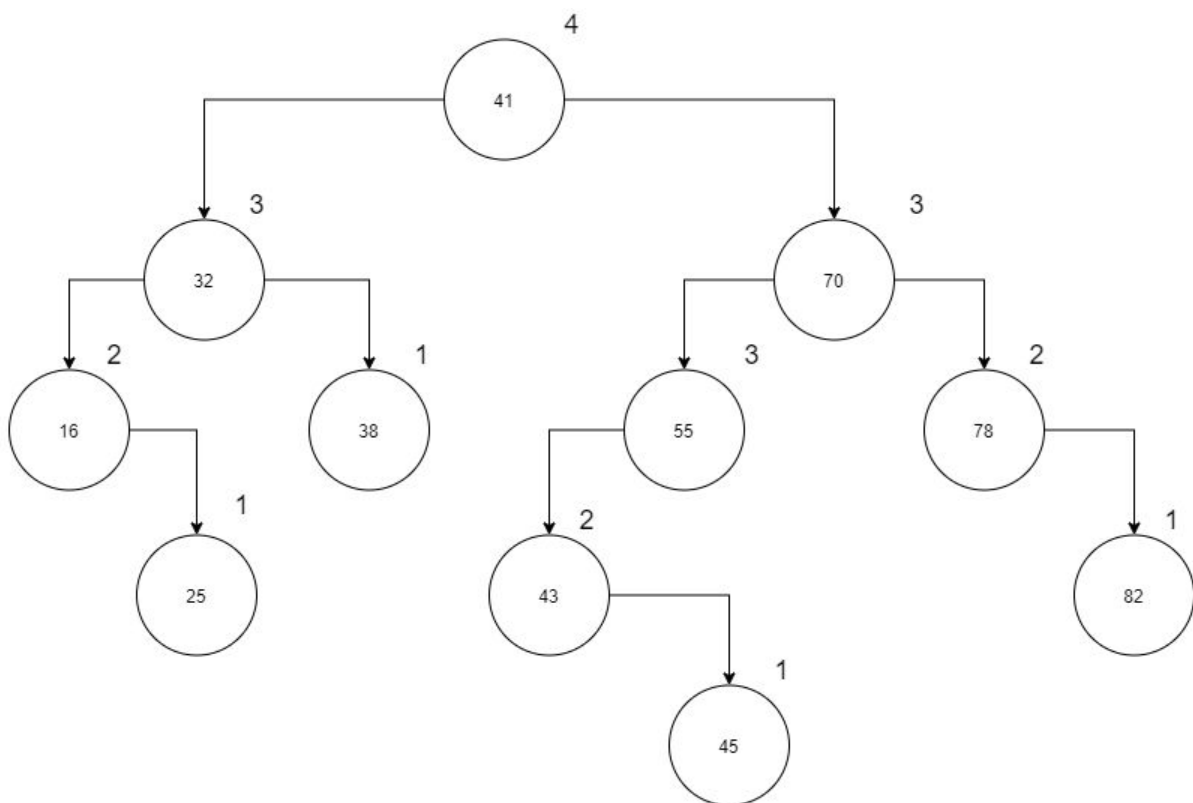
Agregar 32, 78, 41



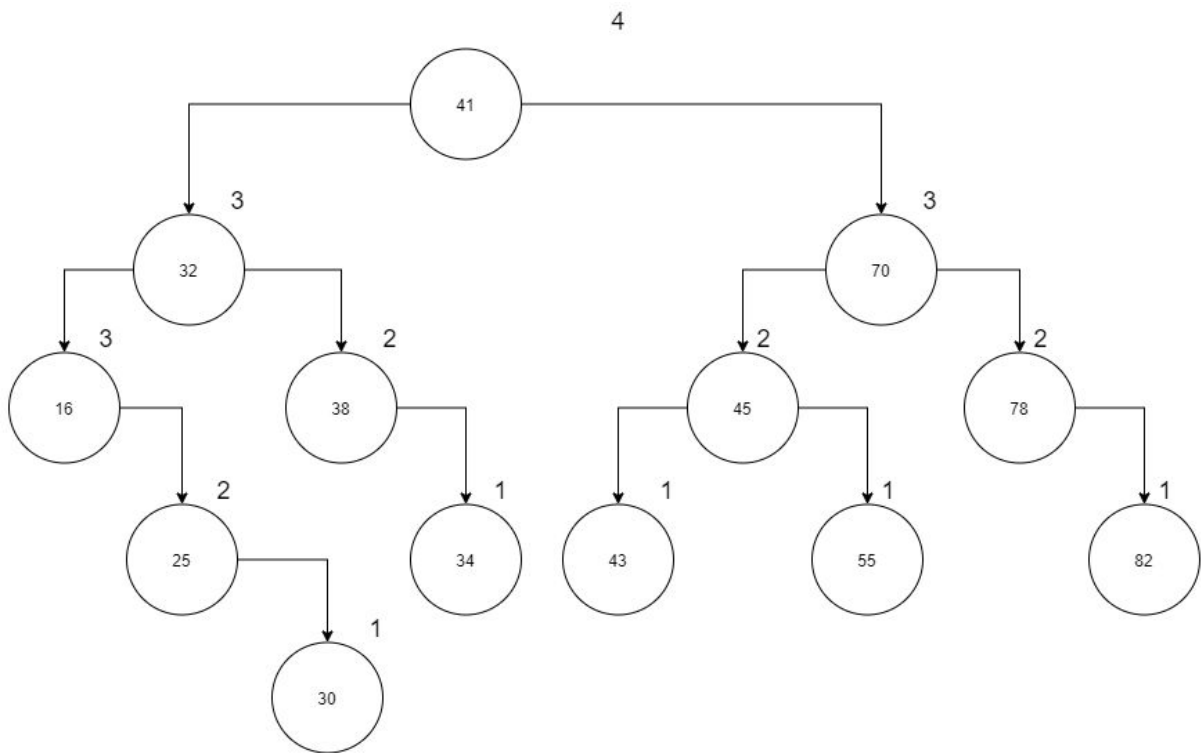
Agregar 70, 16, 55



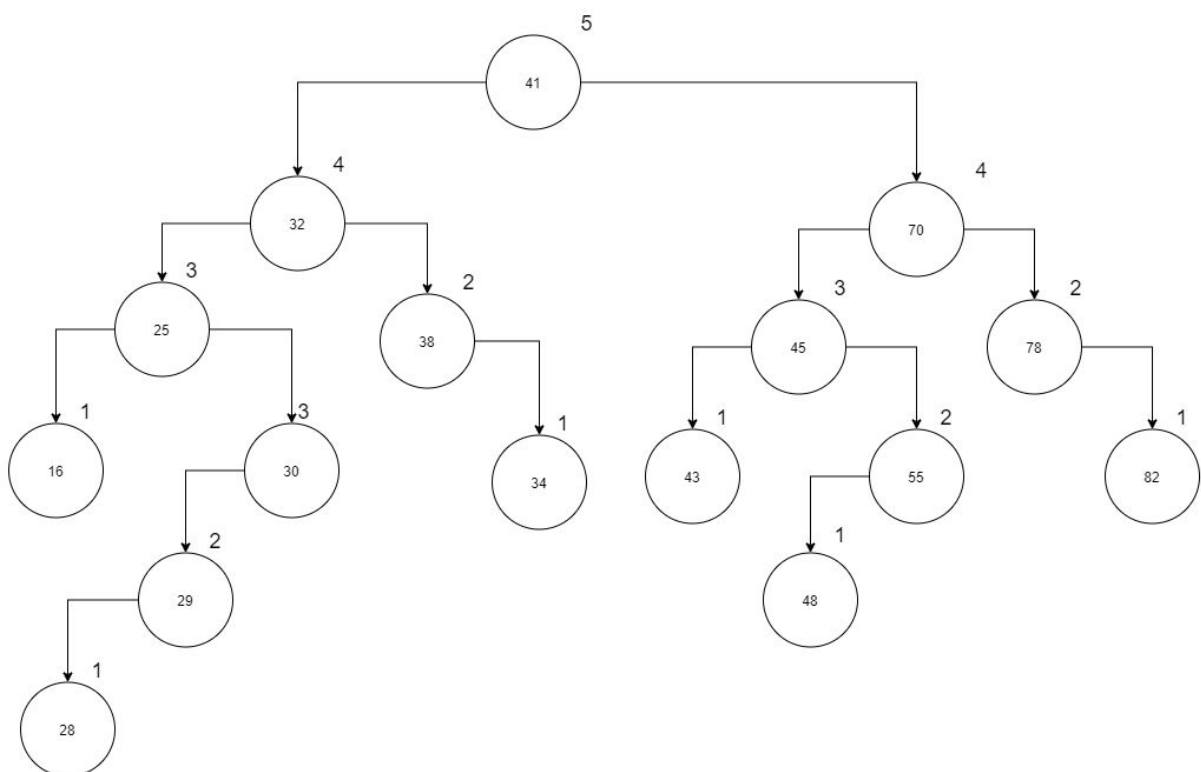
Agregar 43, 38, 25, 82



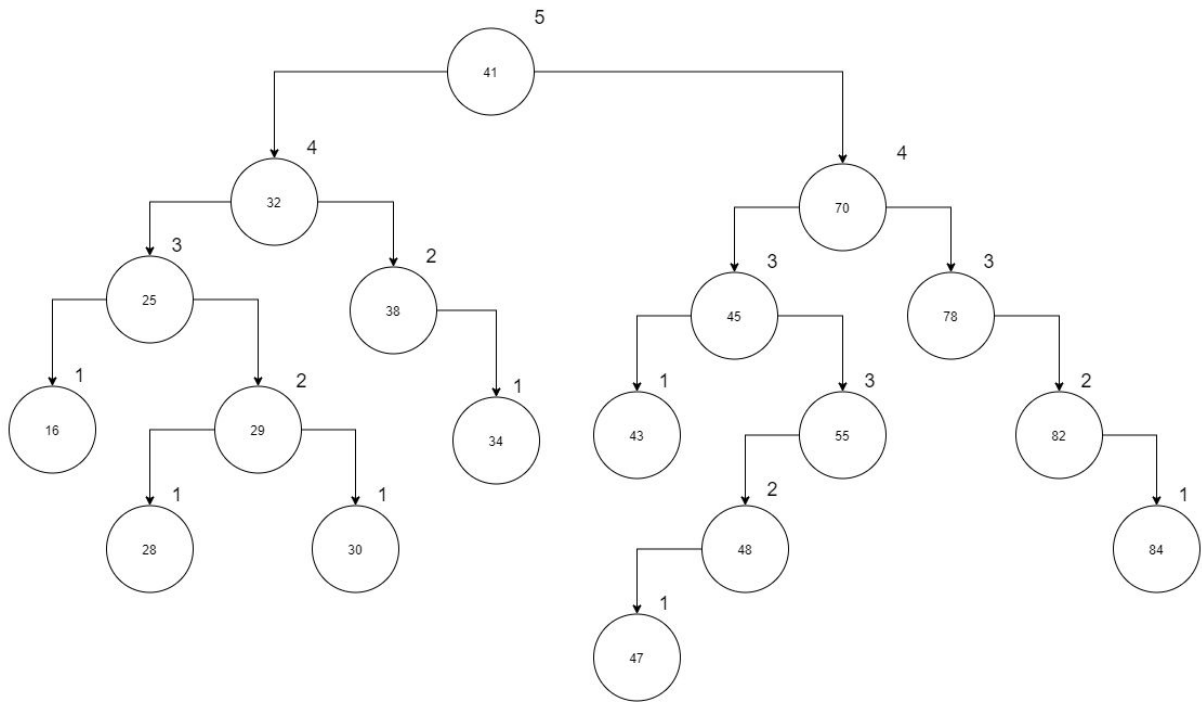
Agregar 34, 30



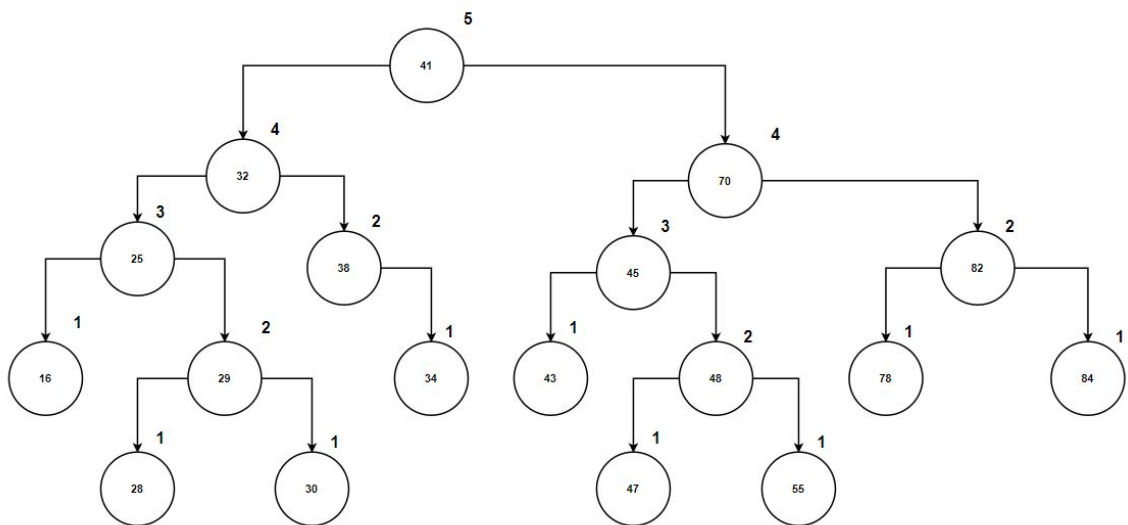
Agregar 29, 48, 28



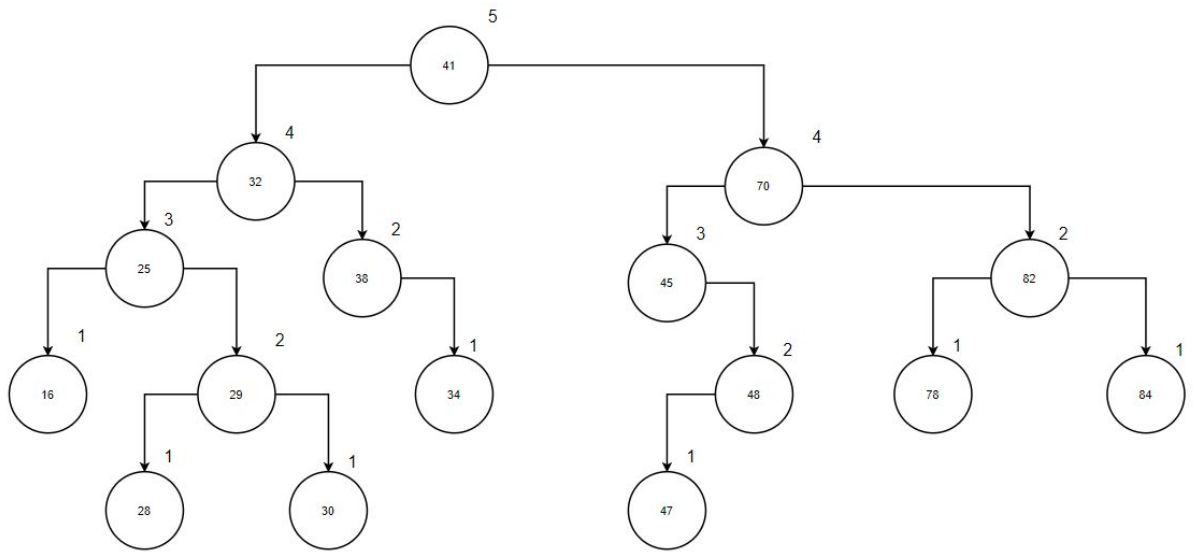
Agregar 47, 84



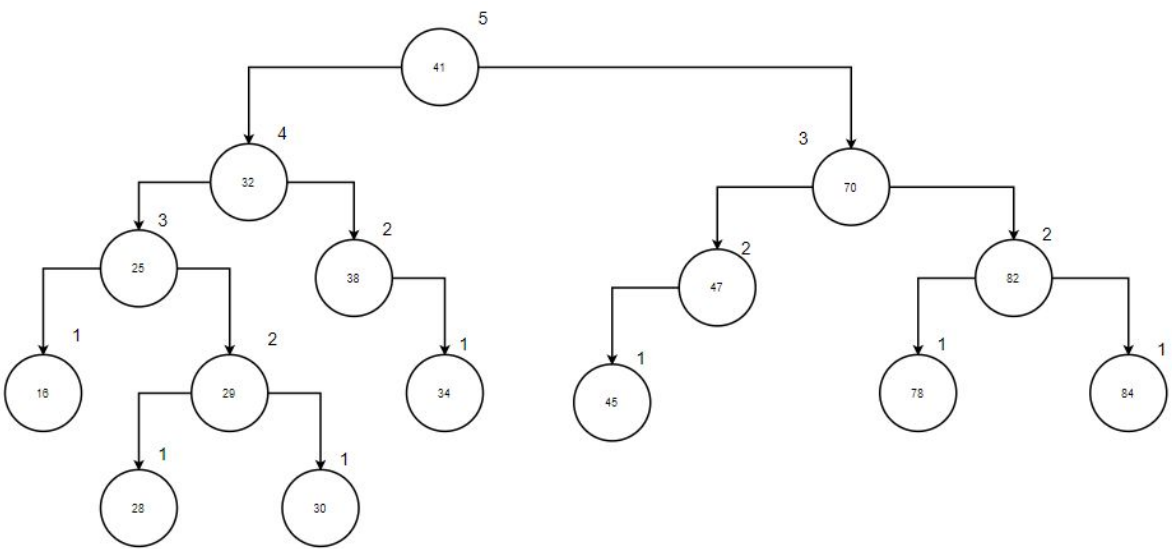
Balanceamos



Eliminar 55, 43



Balanceo; Eliminar 40, 48



c. Arbol B

Agregar 32, 78, 41

32	78	41	
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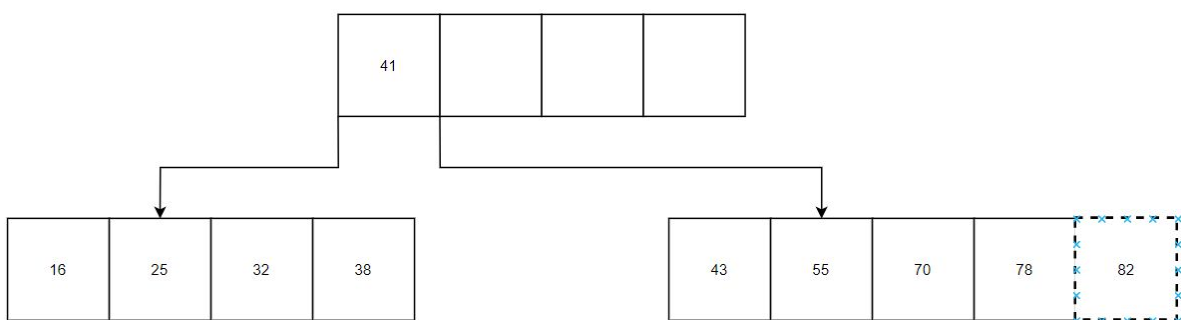
Ordenamos; Agregar 70

32	41	78	70
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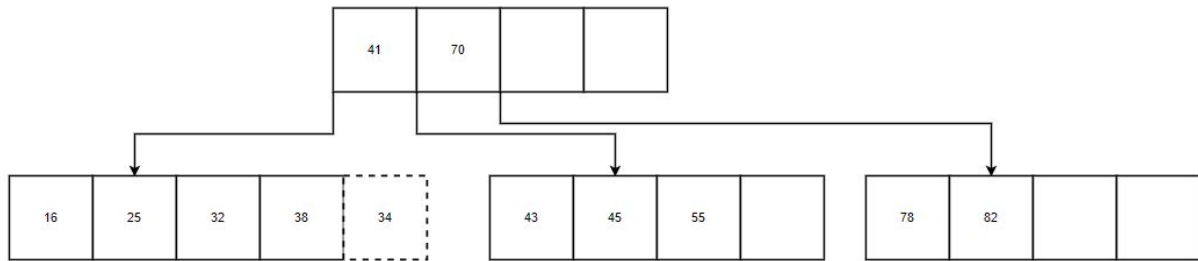
Ordenamos; Agregar 16

32	41	70	78	16
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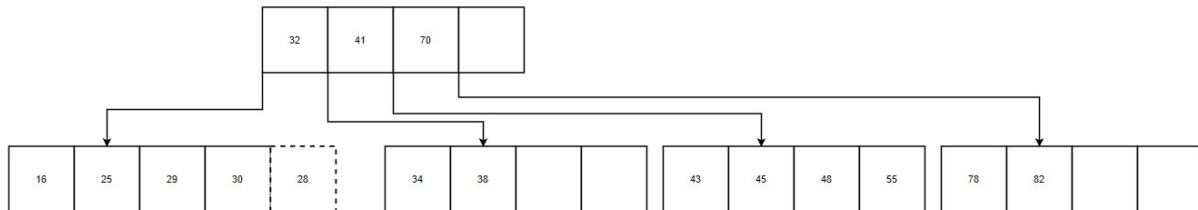
Ordenamos; Agregar 55, 43, 38, 25, 82



Ordenamos; Agregar 45, 34



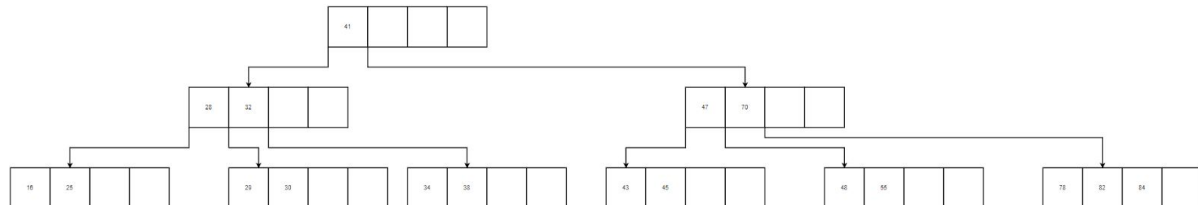
Ordenamos; Agregar 30, 29, 48, 28



Ordenamos; Agregar 47



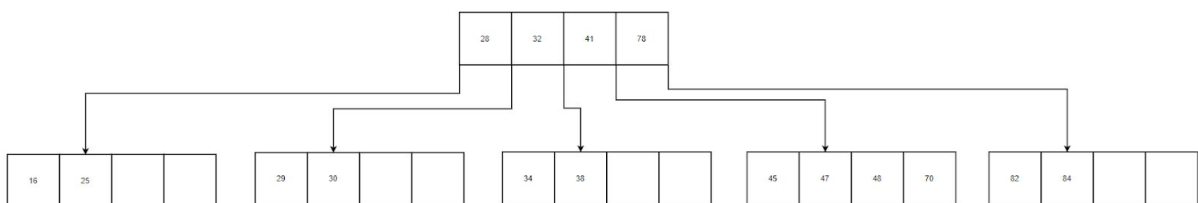
Ordenar; Agregar 84



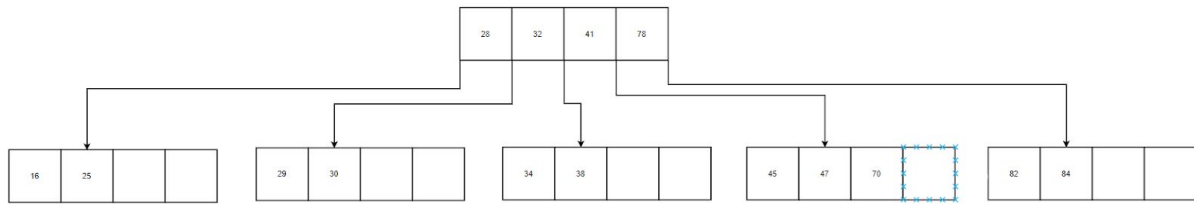
Eliminar 55



Eliminar 43



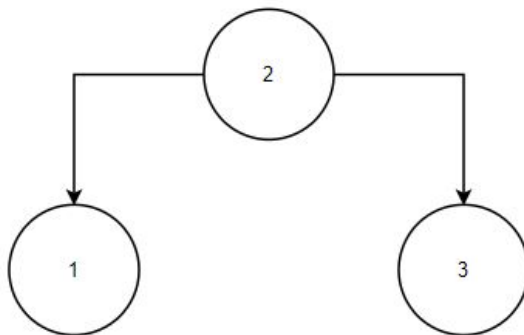
Eliminar 40, 48



5) Responder y justificar el siguiente cuestionario

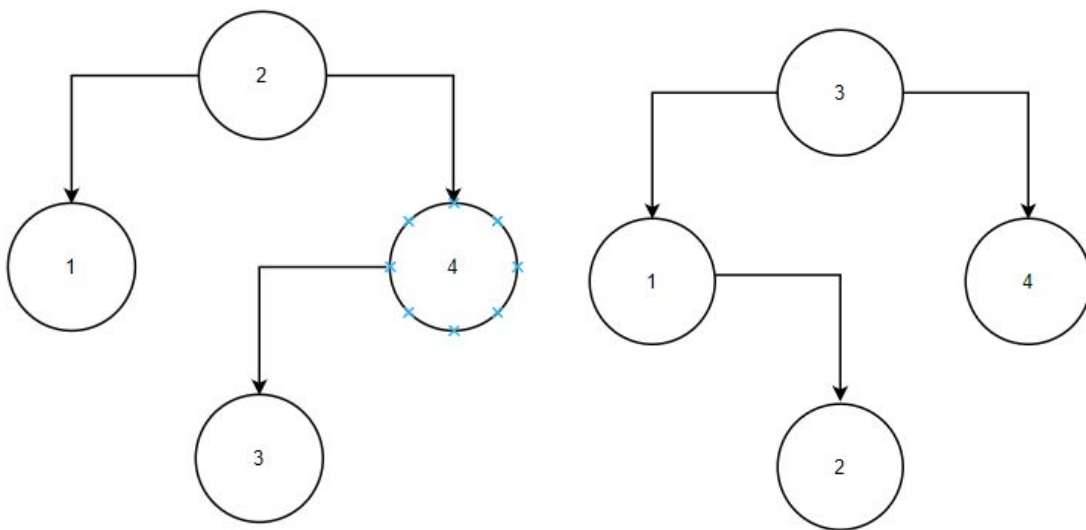
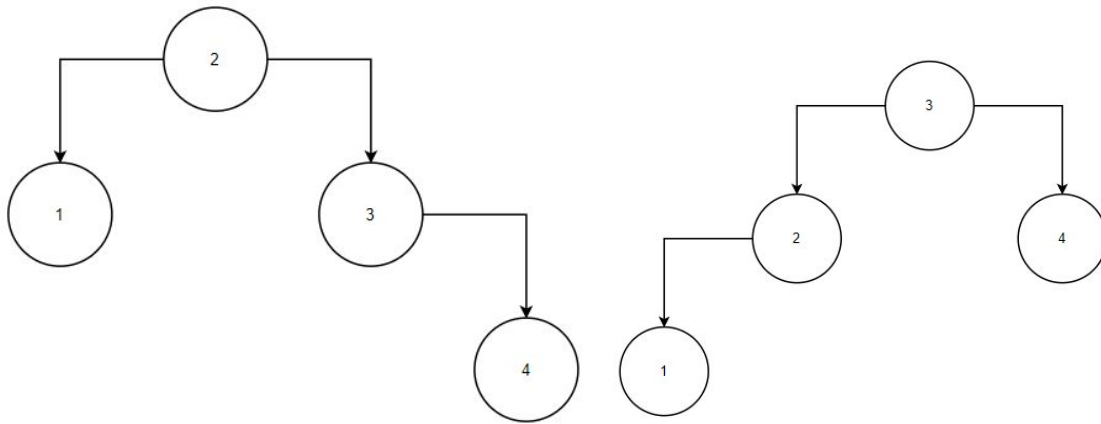
a) ¿Cuántos árboles diferentes AVL pueden generarse si se insertan los valores 1, 2, 3 en un árbol vacío AVL?

Solo puede generarse un árbol



b) ¿Cuántos árboles diferentes AVL pueden generarse si se insertan los valores 1, 2, 3, 4 en un árbol vacío AVL?

Pueden generarse 4 árboles



c) ¿Cuántos árboles diferentes AVL pueden generarse si se insertan los valores 1, 2, 3 en un árbol vacío AVL?

Pueden generarse 5 árboles distintos

