

Ejercicio # 1 = Insertar ~~10, 57, 89, 90, 121, 170, 35, 48, 91, 22, 126, 132~~ y 80.

Datos

O = 5

K = 4

Paso 1:

57	89	90	190
----	----	----	-----

57	89	90	121	190
----	----	----	-----	-----

→ Sube

Paso 2:

90			
----	--	--	--

22	35	57	89
----	----	----	----

91	121	170	190
----	-----	-----	-----

22	35	48	57	89
----	----	----	----	----

Paso 3:

48	90		
----	----	--	--

22	35		
----	----	--	--

57	89		
----	----	--	--

91	121	170	190
----	-----	-----	-----

91	121	126	170	190
----	-----	-----	-----	-----

Paso 4:

48	90	126	
----	----	-----	--

22	35		
----	----	--	--

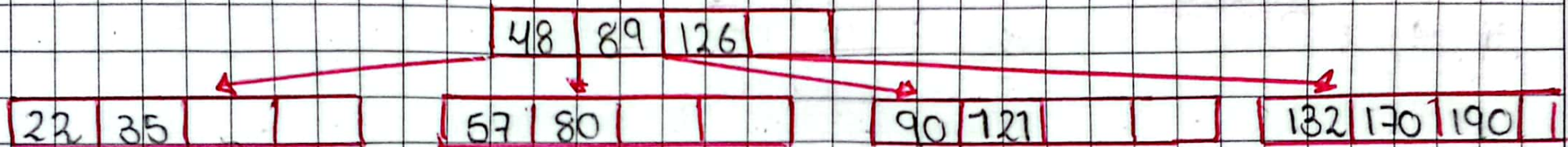
57	80	89	
----	----	----	--

91	121		
----	-----	--	--

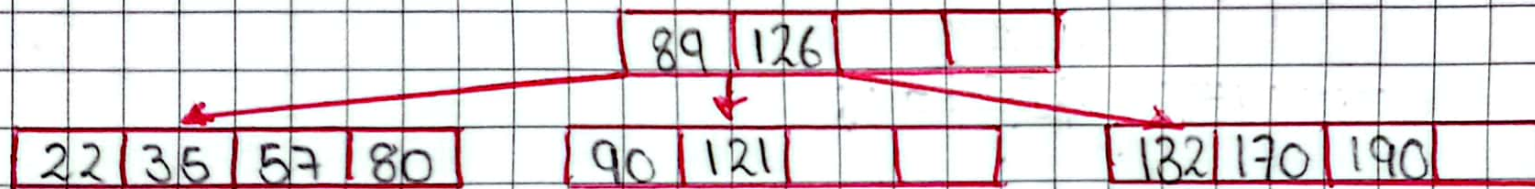
132	170	190
-----	-----	-----

Ejercicio # 2: Eliminar 91, 48. ¿Reducio el numero de nodos?

* Eliminamos 91 =



* Eliminamos 48 =



R = Si se reduce el numero de nodos hojas ya que al eliminar un valor del nodo root subimos y disminuimos el numero de nodos hilos de 4 a 3.

Ejercicio #3: Insertar: 1, 9, 32, 3, 53, 43, 44, 57, 67, 7, 45, 34, 23, 56, 73, 65,
49, 85, 89, 64, 54, 75, 77, 99.

Ques -

$$Q = 5$$
$$K=4$$

Paso 1:

1	3	9	32		
1	3	9	32	53	

Paso 2:

9					
---	--	--	--	--	--

4	3	.		
---	---	---	--	--

32	43	44	53	
32	43	44	53	57

Paso 3-

9	44			
---	----	--	--	--

5	3	7	
---	---	---	--

12	23	32	43	
12	23	32	34	43

45	53	57	67
----	----	----	----

Paso 4-

9	32	44	
---	----	----	--

1	3	7		
---	---	---	--	--

12	23				-
----	----	--	--	--	---

34	43		
----	----	--	--

45	53	67	67
45	53	56	57

Paso 4-

9	32	44	56	
9	32	44	56	67

1	3	7		12	23	23		34	43		45	49	63		57	65	67	73
															67	65	67	73

Paso 5-

44			
----	--	--	--

9	32		
---	----	--	--

56	67		
----	----	--	--

73	75	85	89	
73	75	77	85	89

1	3	7		12	23	23		34	43		45	49	55	54	57	64	65
---	---	---	--	----	----	----	--	----	----	--	----	----	----	----	----	----	----

Paso 6-

44			
----	--	--	--

9	32		
---	----	--	--

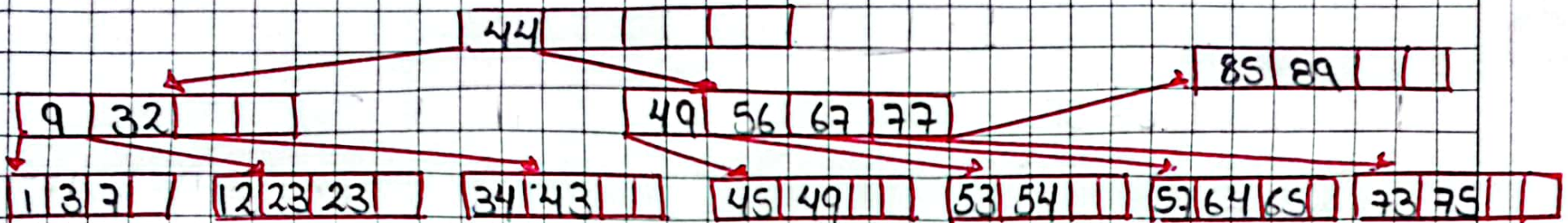
56	67	77	
----	----	----	--

73	75		
----	----	--	--

85	89		
----	----	--	--

1	3	7		12	23	23		34	43		45	49	63	54	67	64	65
											45	49	49	53	54		

Paso 6:

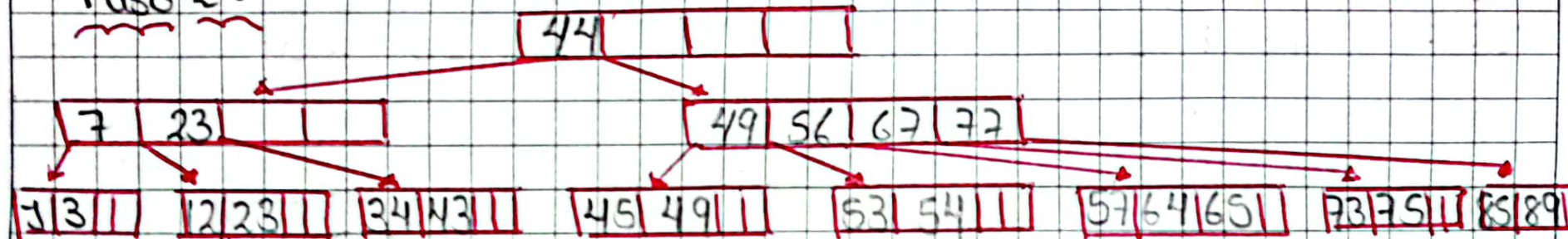


Ejercicio #4: Eliminar ~~9~~, ~~32~~, ~~44~~, ~~57~~, ~~23~~, ~~56~~, ~~85~~, ~~89~~, ~~75~~, ~~77~~

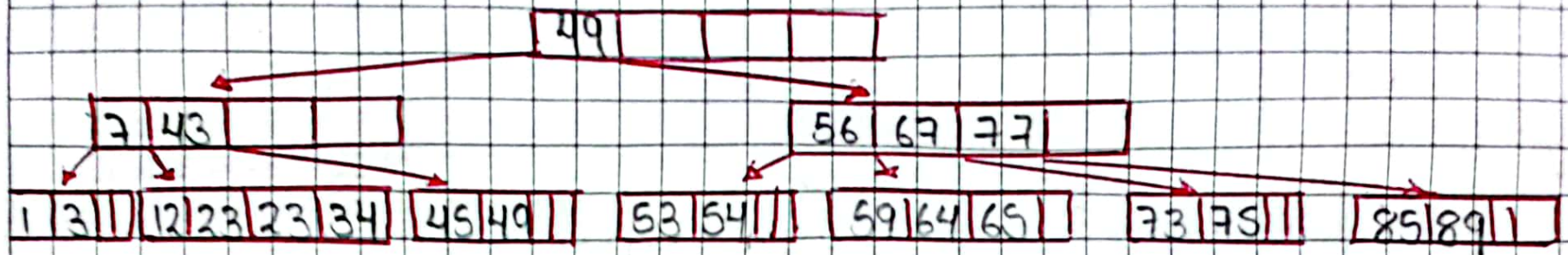
Paso 1:



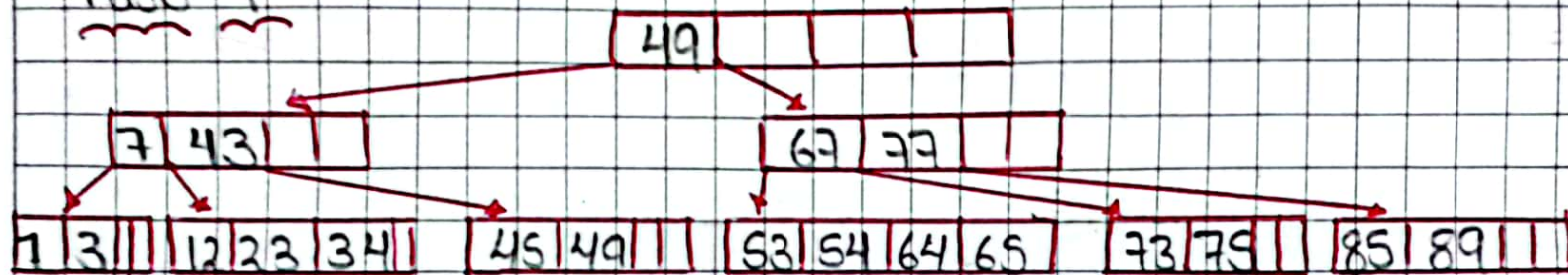
Paso 2:



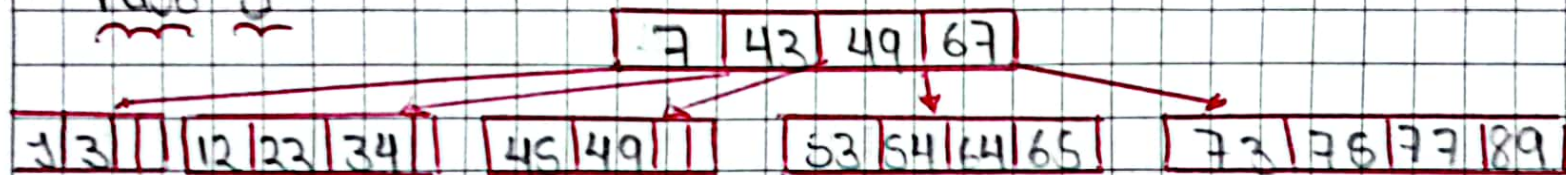
Paso 3-



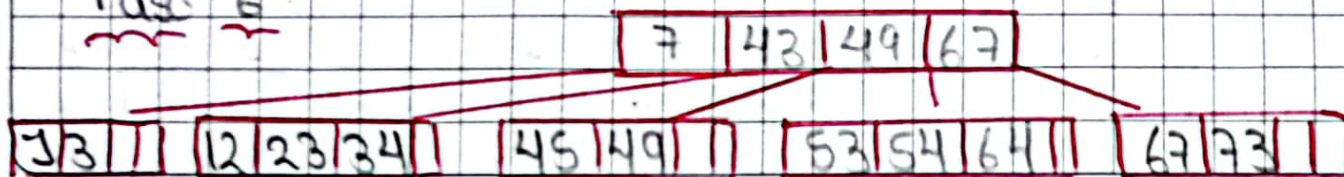
Paso 4-



Paso 5-



Paso 6-

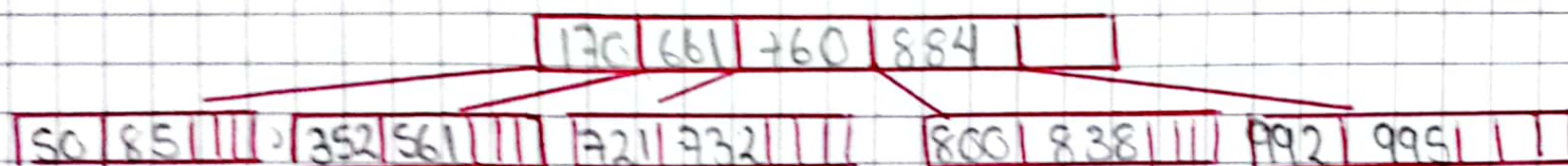
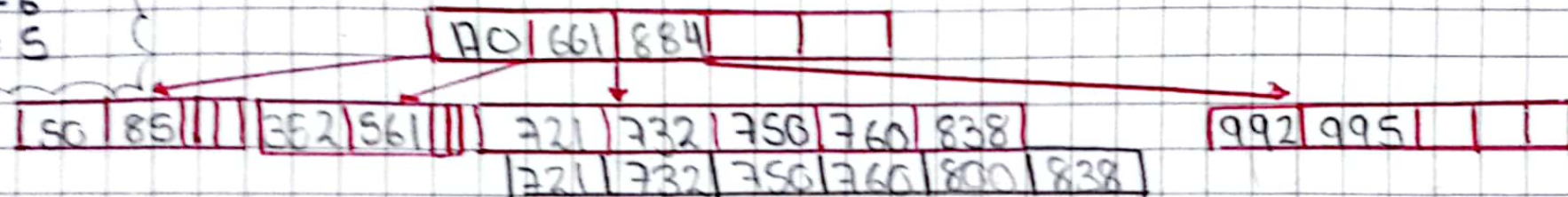


Ejercicio # 6 -

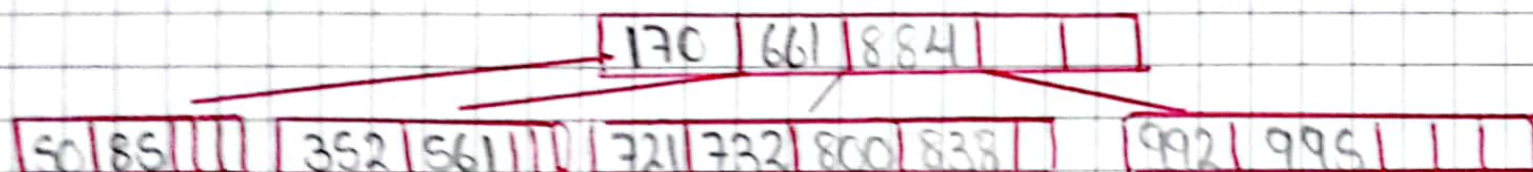
Datos - 1) Insertar 800 -

O = 6

K = 5



2) Eliminar 760 -



3- Insertar 10, 30, 70, 20 y 40 =



Ejercicio #7 - Insertar CR, MR, TU, BA, MZ, AA, CD, ZW, BI, WA, AM, OP, BW, BF, NK, KL, DF, GT, NA, BB, DQ.

Datos = {
Q = 5
K = 4

Paso 1 =

BA	CR	MR	TU	"
BA	CR	MR	MZ	TU



Paso 2-



Paso 3-



Paso 4-



Paso 5-



Paso 6 -

