

Ejercicio 9.3

Que devuelve cada llamada a remove Min dentro de la siguiente secuencia de operaciones PQT de prioridad cola de operaciones.

Metodo	Retur Value	Priority Queue
insert(5,A)		{(5,A)}
insert(4,B)		{(4,B), (5,A)}
insert(7,F)		{(4,B), (5,A), (7,F)}
insert(1,D)		{(1,D), (4,B), (5,A), (7,F)}
removeMin()	(1,D)	{(4,B), (5,A), (7,F)}
insert(3,J)		{(3,J), (4,B), (5,A), (7,F)}
insert(6,L)		{(3,J), (4,B), (5,A), (6,L), (7,F)}
removeMin()	(3,J)	{(4,B), (5,A), (6,L), (7,F)}
removeMin()	(4,B)	{(5,A), (6,L), (7,F)}
insert(8,G)		{(5,A), (6,L), (7,F), (8,G)}
removeMin()	(5,A)	{(6,L), (7,F), (8,G)}
insert(2,H)		{(2,H), (6,L), (7,F), (8,G)}
removeMin()	(2,H)	{(6,L), (7,F), (8,G)}
removeMin()	(6,L)	{(7,F), (8,G)}

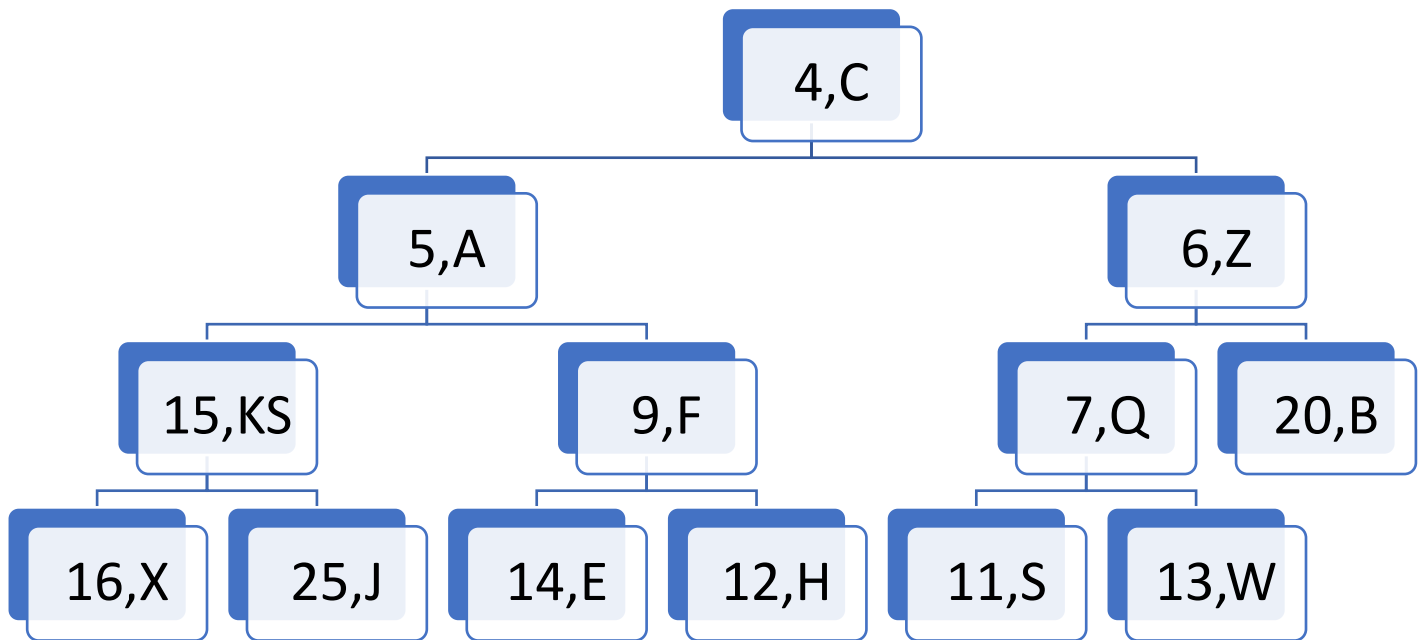
Ejercicio 9.7

Ilustre la ejecución del algoritmo de selección-ordenación sobre la secuencia de entrada: (22, 15, 36, 44, 10, 3, 9, 77, 29, 35).

Input	Sequence S	Priority Queue P
	(22, 15, 36, 44, 10, 3, 9, 13, 29, 25)	()
Phase 1 (a)	(15, 36, 44, 10, 3, 9, 13, 29, 25)	(22)
Phase 1 (b)	(36, 44, 10, 3, 9, 13, 29, 25)	(22, 15)
Phase 1 (c)	(44, 10, 3, 9, 13, 29, 25)	(22, 15, 36)
Phase 1 (d)	(10, 3, 9, 13, 29, 25)	(22, 15, 36, 44)
(e)	(3, 9, 13, 29, 25)	(22, 15, 36, 44, 10)
(f)	(9, 13, 29, 25)	(22, 15, 36, 44, 10, 3)
(g)	(13, 29, 25)	(22, 15, 36, 44, 10, 3, 9)
(h)	(29, 25)	(22, 15, 36, 44, 10, 3, 9, 13)
(i)	(25)	(22, 15, 36, 44, 10, 3, 9, 13, 29)
(j)	()	(22, 15, 36, 44, 10, 3, 9, 13, 29, 25)
Phase 2 (a)	(3)	(22, 15, 36, 44, 10, 9, 13, 29, 25)
(b)	(3, 1)	(22, 15, 36, 44, 10, 13, 29, 25)
(c)	(3, 9, 10)	(22, 15, 36, 44, 13, 29, 25)
(d)	(3, 9, 10, 13)	(22, 15, 36, 44, 29, 25)
(e)	(3, 9, 10, 13, 15)	(22, 36, 44, 29, 25)
(f)	(3, 9, 10, 13, 15, 22)	(36, 44, 29, 25)
(g)	(3, 9, 10, 15, 13, 22, 25)	(36, 44, 29)
(h)	(3, 9, 10, 13, 15, 22, 25, 29)	(36, 44)
(i)	(3, 9, 10, 13, 15, 22, 25, 29, 36)	(44)
(j)	(3, 9, 15, 13, 15, 22, 25, 29, 36, 44)	()

9.22 Maestro todos los pasos de la llamada de cola de prioridad adaptable replaceKey(e18) para el almacenamiento de entrada e (5.A) en el montón de la figura 9.1

Estado inicial



Reemplazando la clase 5 con 18

