A) False 70
3 5
1 70 2

Fili max - heap

B) True of whole Priority queue Wischenp il when it queue is who is proble in queue of the priority queue with themp is shown in queue of interpriority queue of the priority queue of themp is the priority queue of the priority queue of themp is the priority queue of the priority queue of themp is the priority queue of the priority queue

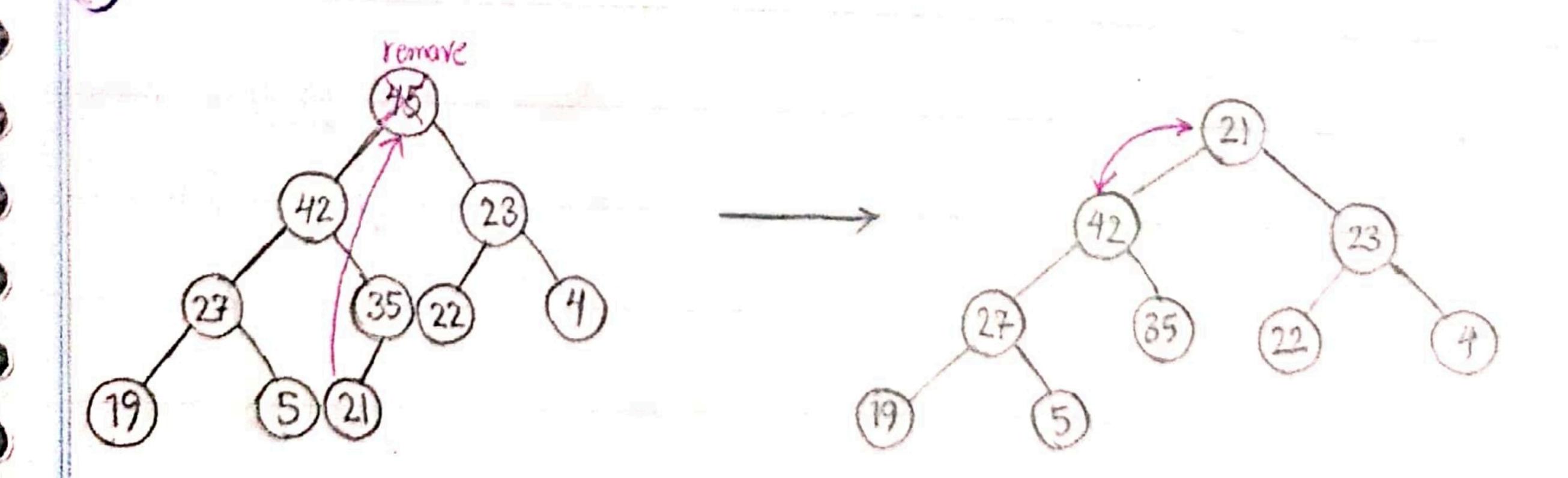
Palse sub list bouldist, Integer linked-list of the Control of Sinked list is only a sub-

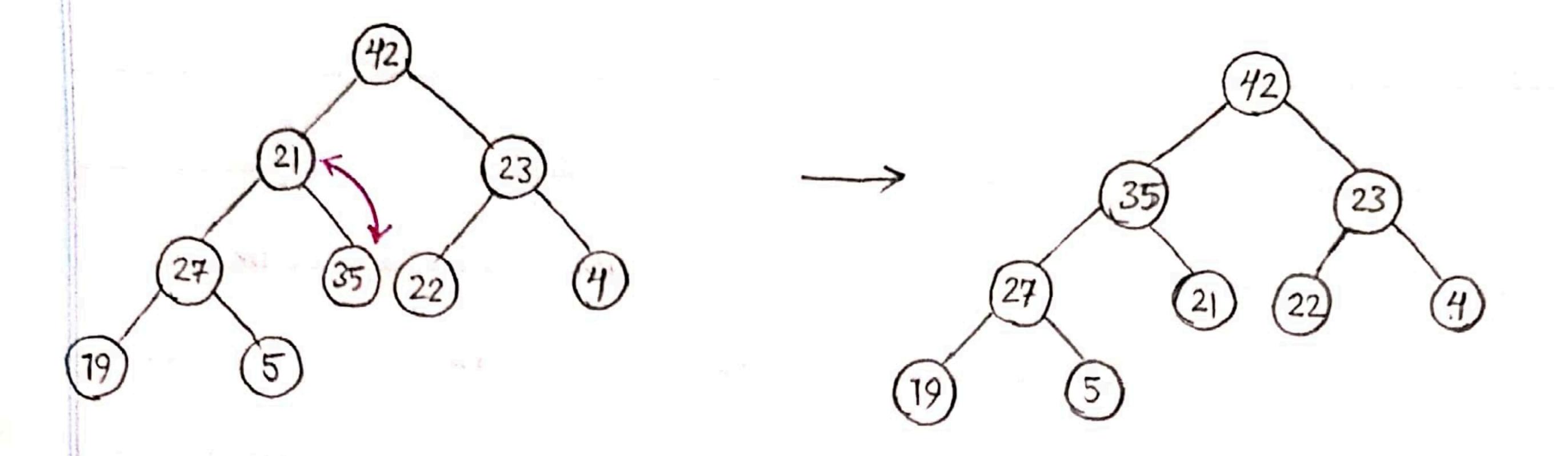
D) False

insert: o(logn)

fined max: 0 (7)

final min: 0 (n)





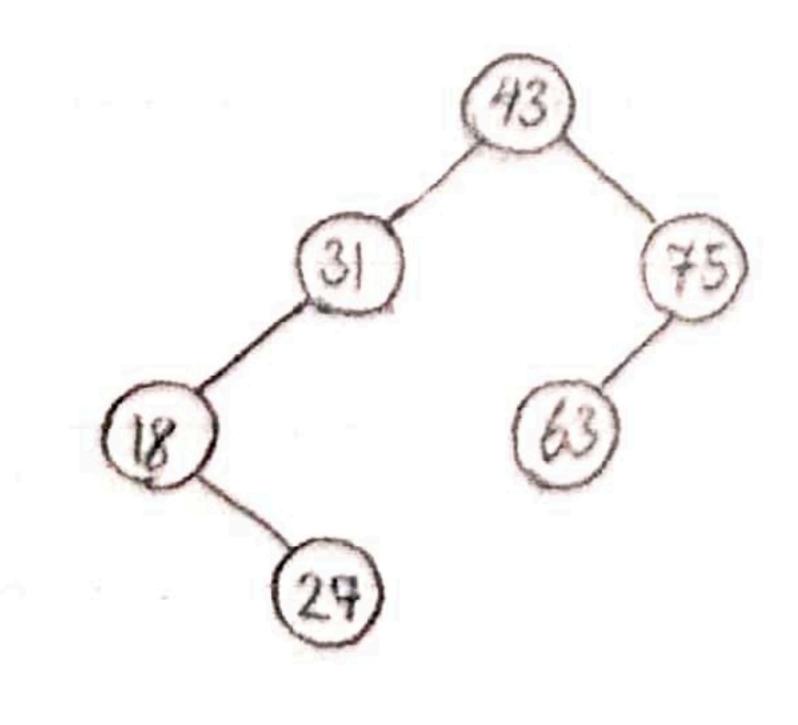
3

- Di Define a class stack i with a variable s=0.
- 2) Implement the function push() which receives an integer as a parameter. Increment the s and push the pair of s and element in the priority; queue.
- 3 Implement function top() and return the element stored in top.
- Dimplement function is Empty(), which returns a boolean . if the priority queue is empty, it returns true. Else returns false.
 - 5 Implement function pop() and check if the priority queue is empty, prints "Can't pop, stack is empty". Else decrement the s and pop the top of the priority queue.
 - 10 In the end, traverse the stack and while stack is not empty print the top and pop the top.

- (9)
- 1. Define two stacks, stack 1 and stack 2.
- 2. Define function Enque with an integer as a parameter like:

 -while stack1 is not empty, push stack1.pop() in

 Stack2
 - Then push the new element in stack 1.
 - Finally, we want to reverse the stack to follow the queue order. So while stack 2 is not empty, push stack 2. popl) in stack 1
- 3. Define Dequeue like this:
 - create an integer del which contains stack 1. peck ()
 - Then we pop the last element with stacks. popl)
 - Finally return del as a deleted value.
- 4. Define function Size:
 - It returns the sum of stack 1 and stack 2 sizes.
- 5. Define function is Empty: (boolean)
 - It returns true, if Size = 0, else it returns false



In binary tree, we put the first

element (43) as a root, then insert

elements step by step. If it is less than

its parents, we put it an left node, else

we put it an right.

banana lemon
apple Kiwi perur
ovange water melon

apple lemon

kiwi pear

arange water melon

2) leman

Kiwi pear

banana arange watermelon

apple