

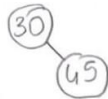
CS 202 - Homework Assignment 03

Question 1

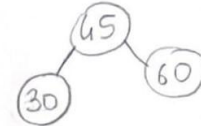
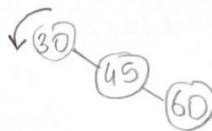
2) insert 30:



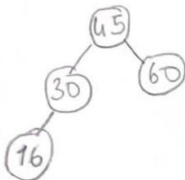
insert 45:



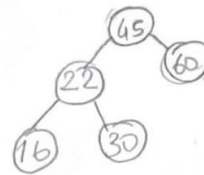
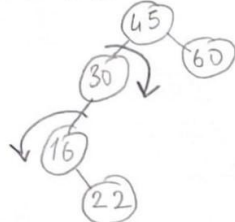
insert 60:



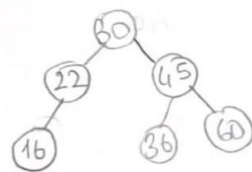
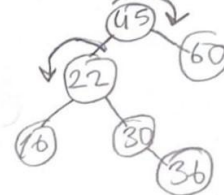
insert 16:



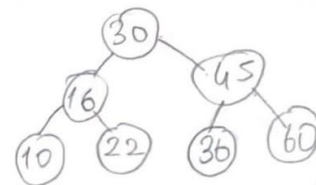
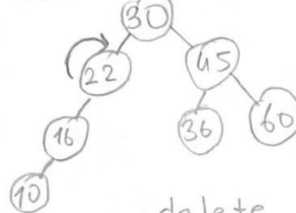
insert 22:



insert 36:



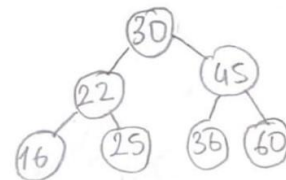
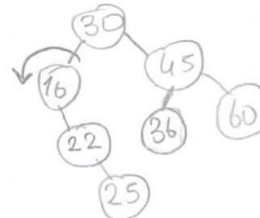
insert 10:



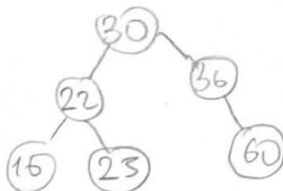
insert 26:



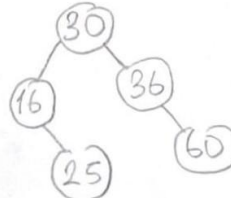
delete 10:



delete 45:



delete 22:

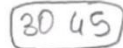


b)

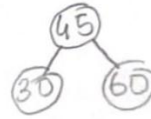
insert 30:



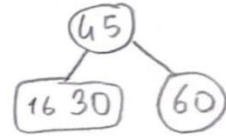
insert 45:



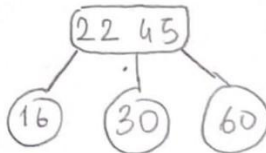
insert 60:



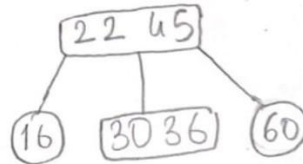
insert 16:



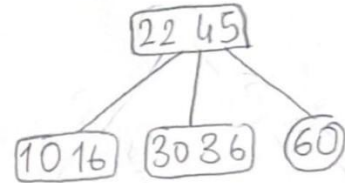
insert 22:



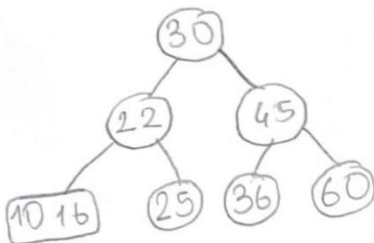
insert 36:



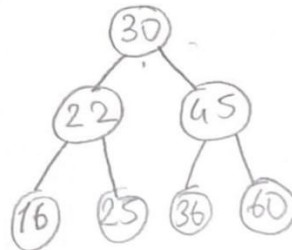
insert 10:



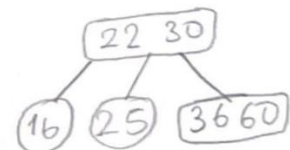
insert 25:



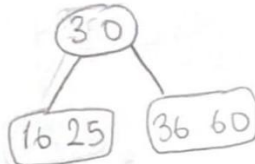
delete 10:



delete 45:



delete 22:



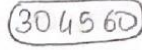
c) insert 30:



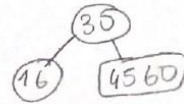
insert 45:



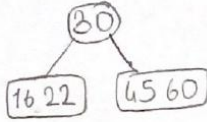
insert 60:



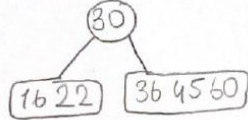
insert 16:



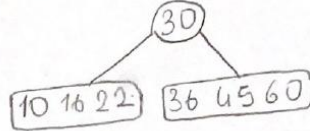
insert 22:



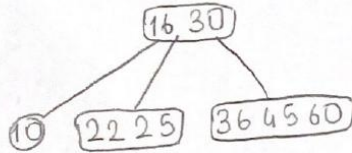
insert 36:



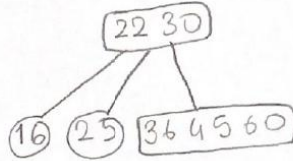
insert 10:



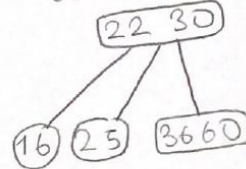
insert 25:



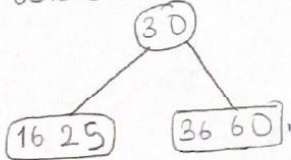
delete 10:



delete 45:



delete 22:



Question 2

a) heapInsert("G")

G

heapInsert("J")

J
G

(continued)
heapInsert("J")

J
G

heapInsert("D")

J
G D

heapInsert("T")

J
G T D

(continued)
heapInsert("T")

J
G T D

(continued)
heapInsert("T")

T
G J D

heapInsert("U")

T
G J U D

(continued)
heapInsert("U")

T
G U J D

(continued)
heapInsert("U")

U
G T D

heapInsert("C")

U
G T C D

heapInsert("B")

U
G T C B D

heapInsert("Q")

U
G T Q C B D

(continued)
heapInsert("Q")

U
G T Q C B D

heapInsert("B")

U
G T Q C B D

heapInsert("X")

U
G T Q X C B D

(continued)
heapInsert("X")

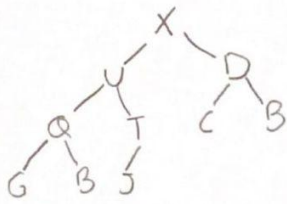
U
G T Q X C B D

(continued)
heapInsert("X")

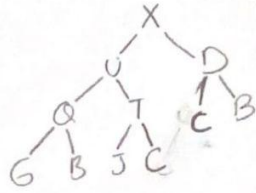
U
G T Q X C B D



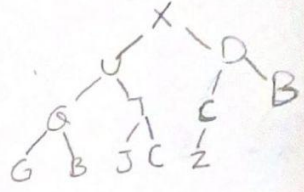
(continued)
heapInsert("X")



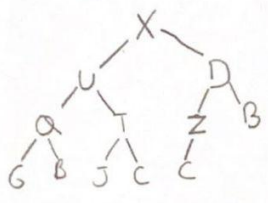
heapInsert("C")



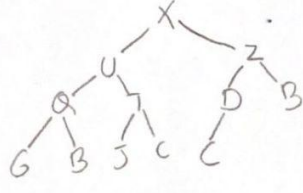
heapInsert("Z")



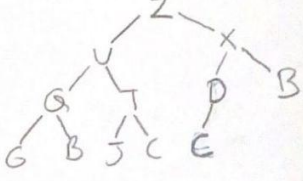
(continued)
heapInsert("Z")

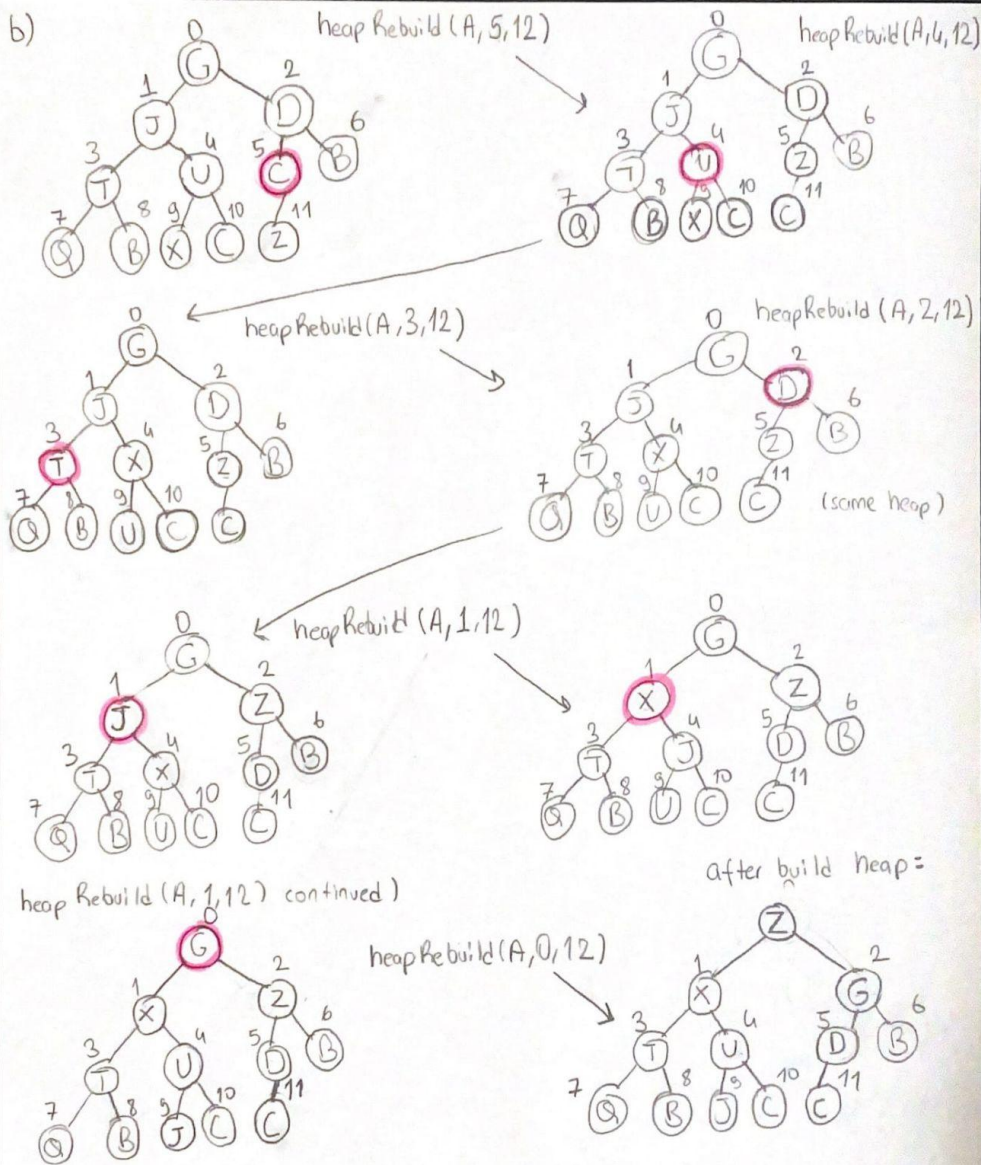


(continued)
heapInsert("Z")



(continued)
heapInsert("Z")





(A is the name of the array corresponding to heap)