Lab 8 Max heap

2019. 04. 25



Data Structure Specification

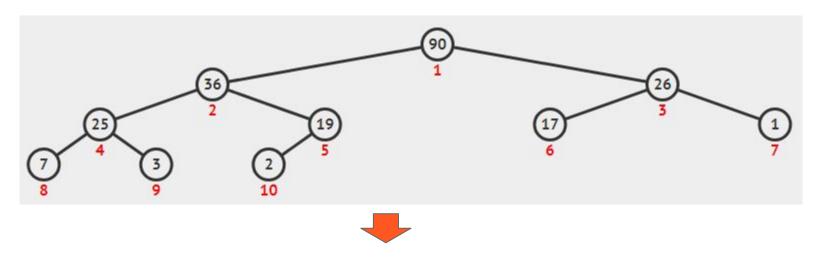
```
struct HeapStruct
{
    int Capacity;
    int Size;
    ElementType *Elements;
}
```

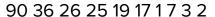
Function specification

- void Insert(ElementType X, PriorityQueue H)
 - insert X and print 'insert X'
 - if X is already exists, then print 'X is already in the tree'.
 - if heap is full, the print 'heap is full'
- void Find(ElementType X, PriorityQueue H)
 - if X is in the heap, print 'X is in the heap'.
 - if X is not in the heap, print 'X is not in the heap'.
- void Print(PriorityQueue H)
 - Print all Elements in index order.



void Print(PriorityQueue H)







Input

- The first line contains size of heap
- o ix: insert element x
- o fx: find element x
- o p: print the entire max heap in index order.
- You have to use file I/O like the previous assignment.

■ input - 메모장	output - 메모장
파일(F) 편집(E) 서식(O) 보기(V) 도움말(H)	파일(F) 편집(E) 서식(O) 보기(V)
5 i 4 i 1 i 9 i 10 i 1 f 10 f 5	insert 4 insert 1 insert 9 insert 10 1 is already in the heap. 10 is in the heap. 5 is not in the heap. 10 9 4 1
p	



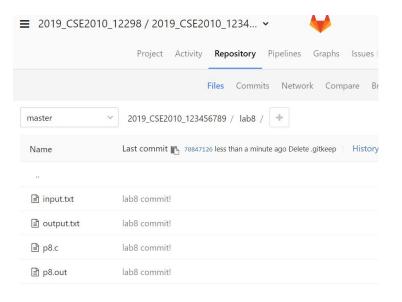
Submission

Project directory name : lab8

Source file name : p8.c

Executable file name : p8.out

• You should upload in the hoonnect (Gitlab) server.





DeadLine

Wednesday, 8 May, 23:59 pm

