

## CS2604:Project2Example

Let us consider the following example –

```
insert514514A
insert5141538B
insert61446144C
insert66799557D
insert96819557F
debug
remove5141538
debug
search818095571600
makenull
```

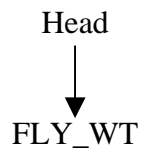
Let us go over the commands one by one and see how the database space and the bintree are affected. The proper outputs are also shown –

**Initially** –

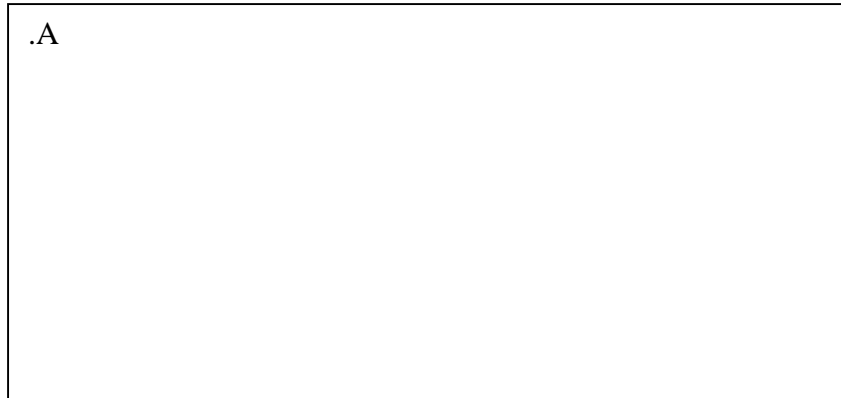
**The Space** –



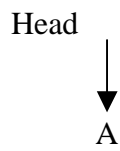
**The Tree** –



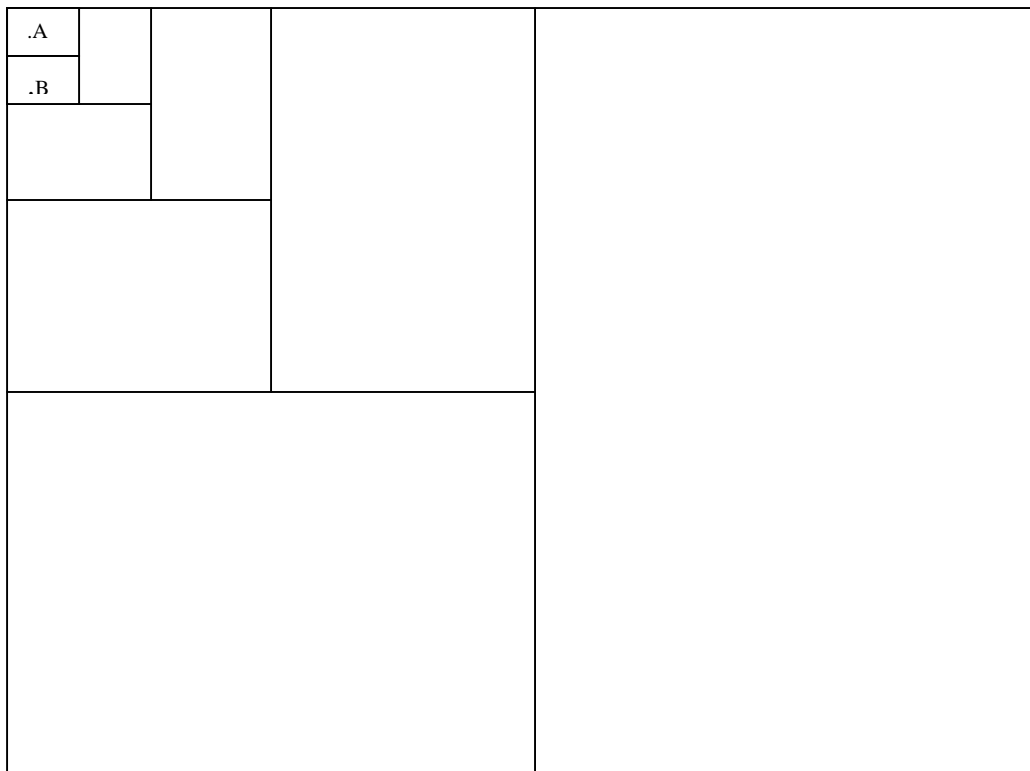
**Command:**insert514514A  
**Output:**InsertedAat514,514  
**The space:**



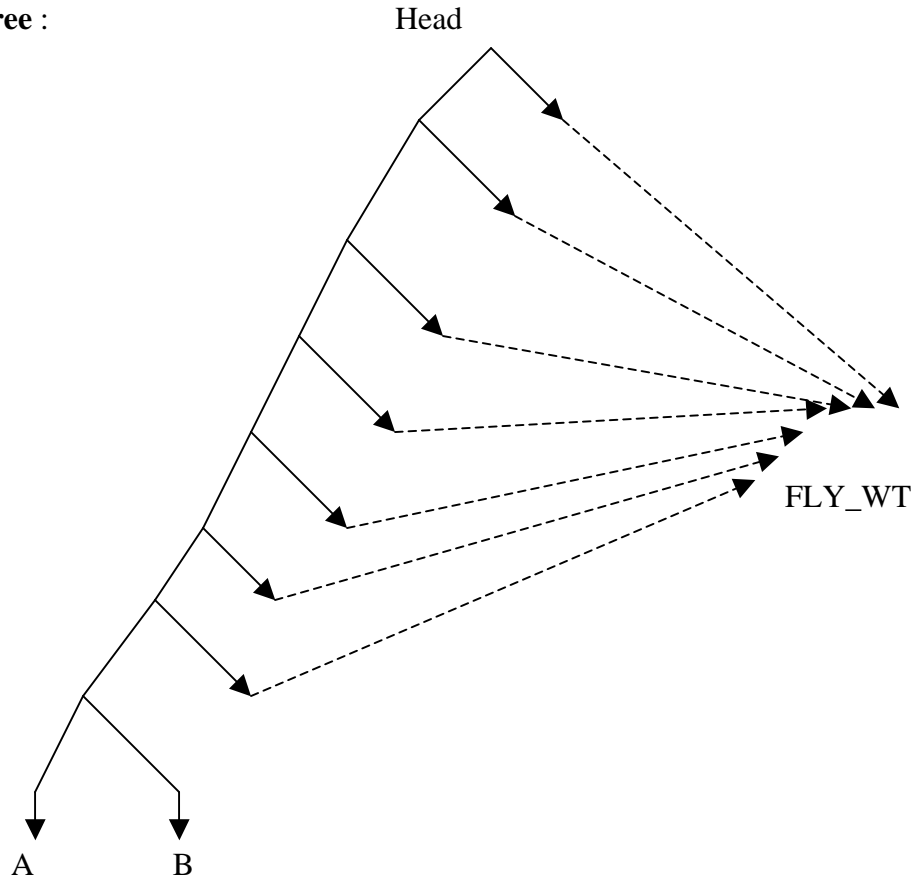
**The Tree :**



**Command:**insert5141538B  
**Output:**InsertedBat514,1538  
**Space:**



**TheTree :**

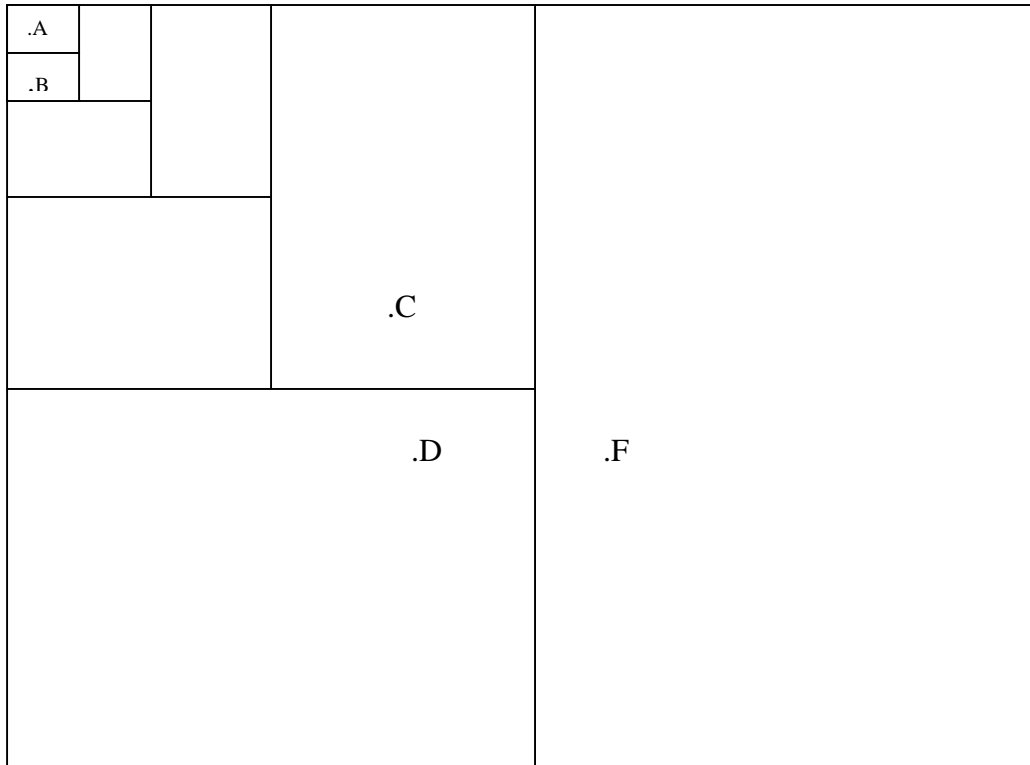


**Command:**insert6144 6144C **Output:**InsertedCat6144,6144

**Command:**insert66799557D **Output :**InsertedDat6679,9557

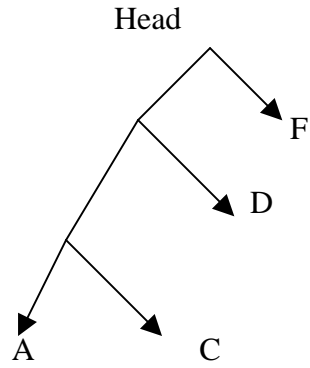
**Command:**insert96819557F **Output :**InsertedFat9681,9557

**Space:**





**TheTree :**

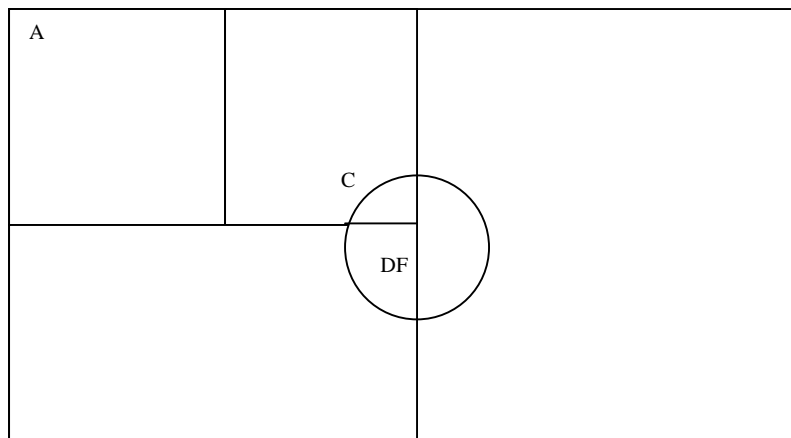


**Command:** debug

**Output:** Following is a list of the nodes -  
GGG514,514,A6144,6144,C6679,9557,D9681,9557,F

**Command:** search818095571600

**Output:** Cities found in the searched region -  
D6679,9557  
F9681,9557  
No. of nodes traversed -6



**Command:** makenull

**Output:** Database reinitialized

**Space:**



**Tree:** Head

