

rank value 0 0 0 There are in total 2m=12 nodes. 6 of these nodes are currently used while the other 6 are still free

0 0 0 0 0

marked

node id

array

rank

array

1 would indicate a marked node rank[4]=1 means that node 4 12 has a rank value of 1 (the rank is -1 essentially the height). free nodes have an

is not marked. An array value of

The pointers L<sub>0</sub>-Ptr and L<sub>k</sub>-Ptr are implemented

0

by two variables L0-Ptr and Lk-Ptr: L0-Ptr=4 means that L0-Ptr points to node 4. Lk-Ptr=1 means that Lk-Ptr points to node 1.

3

5 6

A queue Q maintains the id of free nodes: Q = [7, 8, 9, 10, 11, 12]

8 9 10

-1 -1 -1

array value of -1

-1 -1 -1 -1