**CORSO DI ALGORITMICA**

ESONERO DEL 10/03/2017

1. Given a dynamic table with i-1 >= 1/2, let the deletion of an item the ith operation. Compute the amortized complexity of the ith operation employing the potential method.
2. What is the average complexity of the last insertion of a sequence of n insertion into an initially empty binary tree?
3. The smallest and the largest keys in an AVL tree can always be found on either the last level or the next-to-last level: true or false? Explain your answer.
4. Given a binary tree of 10 nodes, obtained by inserting in the order the keys g,b,a,d,c,f,e,i,h,j, lead to the root node “e” via a splay-operation.