FUNCTIONS' COMPLEXITY

- Complexity in the worst case of insert:

- T(n) = C1 + C2 + n
- T(n) = n ---> Sum law
- O(n) where n is the size of the binary tree

- Complexity in the worst case of search:

- T(n) = C1 + C2 + C3 + C4 + C5 + n*C6 + n*C7
- T(n) = (C6+C7)*n ---> Sum law and common factor
- T(n) = n ---> Product law
- O(n) where n is the size of the binary tree

- Complexity in the worst case of delete an element:

- T(n) = C + C3*n + C5*n + *C13
- T(n) = (C3+C5+C13)*n ---> Sum law and common factor
- T(n) = n ---> Product law
- O(n) where n is the size of the binary tree

- Complexity in the worst case of print:

- T(n) = C1 + C2 + n*C3 + n*C4
- T(n) = (C3+C4)*n ---> Sum law and common factor
- T(n) = n ---> Product law
- O(n) where n is the size of the binary tree