## Algoritmos II

## Trabajo Practico arboles Nºarios-Trie

## 1) a) Insert:

```
v def SearchCharacter(level,element):
Trie
                                      for i in range(0,length(element)-1):
                                        if i==(level-1):
   algo1.py
                                          c=element[i]
      LibreriaExe (1).py
                              19
                                          break
      LinkedList.py
                              20
                                      return c
       main.py
                                  def insert(T,element):
                                      level=1
Packager files
                                      if TrieNode.children==None:
                                        TrieNode.children=LinkedList()
∨ Tools
                                        CL=Linkedlist()
                                        CL=None
  T=Trienode()
                                        T.key=SearchCharacter(level,element)
                                        add(TrieNode.children,T)
           -(°
  (1)
                   \trianglerightI
                                        CL=TrieNode.children.head
                                        level+=1
                  Debugger
 CPU
          RAM
                   Storage
                                        CL=TrieNode.children.head
                                        while CL!=None:
Try Ghostwriter
                              36 v
                                          if CL.value.key==c:
                                        if CL.value.key==c:
    LibreriaExe (1).py
                                           TrieNode=CL.value
    LinkedList.py
                                          CL.head=TrieNode
                                          break
    main.py
                             40
                                        CL=CL.nextNode
                                       if CL==None:
 Packager files
                                        T=TrieNode()
                                        T.key=SearchCharacter(level,element)
∨ Tools
                                        add(TrieNode.children,T)
                                        CL=TrieNode.children.head
  level+=1
                                    for i in range (1,length(element)-1):
                                      T=TrieNode()
  \Theta
           ξ
                   \trianglerightI
                                      T.key=SearchCharacter(level,element)
                             50
                                       insert(CL,T,i)
                  Debugger
                                      T.parent=searchCurrent(CL, element[i-1])
          RAM
  CPU
                   Storage
                                       if i==(length(element)-1):
                                        T.isEndOfWord=True
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```

## B) Search:

