

Classes

[strutturreImpiegare.Tree.Tree\(builtins.object\)](#)[SuffixTree](#)**class SuffixTree**([strutturreImpiegare.Tree.Tree](#))[SuffixTree](#)(stringSet)

class representing the suffix tree

Method resolution order:

[SuffixTree](#)[strutturreImpiegare.Tree.Tree](#)[builtins.object](#)

Methods defined here:

[__init__](#)(self, stringSet)

constructor method for the suffix tree

:param stringSet: a set of strings from which the suffix tree should be built

[__len__](#)(self)

Return the total number of elements in the alberi.

[child](#)(self, position, s)

the function is used to access to the child position of the specified position whose substring

-starts with the string s

-is a prefix for the string s

:param position([SuffixTree.Position](#)): the position where the function is called

:param s(str): the string

:returns the child node if it exists or None if it doesn't

[getNodeDepth](#)(self, position)

function that calculates the length of the string until that node

:param position: the position whose depth is desired

:return: the length of the substring

[getNodeLabel](#)(self, position)

function that gets the string corresponding to a certain position

:param position: position whose string is desired

:return: the corresponding string

[getNodeMark](#)(self, position)

function that accesses to the mark of the node

:param position: position whose mark is desired

:return: the list of the strings tho which the substring stored in that node belongs to

[parent](#)(self, p)

:returns the parent position of a generic position p

[pathString](#)(self, p)

function used to return the path string from the root to the specified position

:param p: position whose path string is being calculated

:return: the path string from the root to the position p

[root](#)(self)

:returns the root position in the tree

Data and other attributes defined here:

Position = <class 'SuffixTree.SuffixTree.Position'>

abstraction used to contain the reference to the tree and the node, whic contains information about the substring stored

Methods inherited from [strutturreImpiegare.Tree.Tree](#):**[__iter__](#)**(self)

Generate an iteration of the alberi's elements.

[children](#)(self, p)

Generate an iteration of Positions representing p's children.

[depth](#)(self, p)

Return the number of levels separating Position p from the root.

[height](#)(self, p=None)

Return the height of the subtree rooted at Position p.

If p is None, return the height of the entire alberi.

is_empty(self)

Return True if the alberi is empty.

is_leaf(self, p)

Return True if Position p does not have any children.

is_root(self, p)

Return True if Position p represents the root of the alberi.

num_children(self, p)

Return the number of children that Position p has.

positions(self)

Generate an iteration of the alberi's positions.

postorder(self)

Generate a postorder iteration of positions in the alberi.

preorder(self)

Generate a preorder iteration of positions in the alberi.

Data descriptors inherited from [struttareImpiegare.Tree.Tree](#):

__dict__

dictionary for instance variables (if defined)

__weakref__

list of weak references to the object (if defined)