

Main

- path: string

+ root: DSTreeNode<string,string,int>

+ size: int

+ DSAVLTree()

+find(in c: DSTreeNode<string,string,int>*, in val: string): DSTreeNode<string,string,int>

+ getRoot():DSTreeNode<string,string,int>*

+ contains(in c:DSTreeNode<string,string,int>*, in val, string): bool + height(in : DSTreeNode<string,string,int>*&):int

+ getSize(): int

+ insert(in key: string&, in val: string&, in rank: int&)

+ insert(in key: string&, in val: string&, in rankL int&, in t: DSTreeNode<string,string,int>*&)

+ insert(in key: string&, in val: vector<string>&,

in rank: vector<int>, in t:DSTreeNode<string,string,int>)

+ balance(inout t: DSTreeNode<string,string,int>*&)

+ rotateWithLeftChild(inout k2: DSTreeNode<string,string,int>*&)

+ doubleWithLeftChild(inout k3: DSTreeNode<string,string,int>*&)

+ rotateWithRightChild(inout k2: DSTreeNode<string,string,int>*&)

+ doubleWithRightChild(inout k3: DSTreeNode<string,string,int>*&)

+ clear()

+ clear(inout n: DSTreeNode<string,string,int>)

+ copyHelper(in node: DSTreeNode<string,string,int>)

- height: int

+ DSTreeNode()

+ getKey(): string&

+ getRankings(): vector<string>

+ getHeight(): int

+ getLeft(): DSTreeNode*&

+ getRight(): DSTreeNode*&

+ setKey(in newKey: string)

+ addValue(in val: string, in rank: int)

+ setHeight(in h: int)

+ setLeft(in node: DSTreeNode<string,string,int>)

+setRight(in node: DSTreeNode<string,string,int>)