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class node{
char c;
node next[]=new node[26];
int end=0;
}

public class tries
{
static node root=new node();
public static void printnode(node r){
int i=0;
while(i<26){
if(r.next[i]!=null){
System.out.println(r.next[i].c);
r=r.next[i];
i=0;
}
else
i=i+1;
}
}
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}
public static node insert(String s){
    node temp=root;
    char[] ch = s.toCharArray();
    for(int i=0;i<ch.length;i++){
        int index=(int)ch[i]-97;
        //System.out.println(root.next[index]);

        if(root.next[index]==null){
            node k= new node();
            k.c=ch[i];
            if(i==ch.length-1){
                k.end=1;
            }
            root.next[index]=k;
            root=root.next[index];
        }
        else{
            root=root.next[index];
        }
    }
    return temp;
}
public static boolean search(String s){
    node temp=root;
    char[] ch = s.toCharArray();
    for(int i=0;i<ch.length;i++){
        int index=(int)ch[i]-97;
        if(temp.next[index]!=null){
            temp=temp.next[index];
            if((i==ch.length-1) && (temp.end==1)){
                return true;
            }
        }
        else{
            return false;
        }
    }
    return false;
}
public static node delete(String s){
    node temp=root;
    char[] ch = s.toCharArray();
    for(int i=0;i<ch.length;i++){
        int index=(int)ch[i]-97;
        if(root.next[index]!=null){
            root=root.next[index];
            if((i==ch.length-1) && (root.end==1)){
                root.end=0;
                return temp;
            }
        }
        else{
            return temp;
        }
    }
    return temp;
}
public static void main(String[] args) {
    String arr[]= {"hel", "hello", "helu", "this", "these"};

    for(int i=0;i<arr.length;i++)
        root=insert(arr[i]);
    //printnode(root);
    System.out.println(search("hel"));
    //printnode(root);
    root=delete("hel");
    System.out.println(search("hel"));
}

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}

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