import java.util.\*;

public class TrieNode

{

public TrieNode()

{

super();

}

boolean exists = true;

HashMap<Character, TrieNode> links = new HashMap <Character, TrieNode>();

TrieNode root = new TrieNode();

public boolean add(String word) {

// int offset = 97;

// char[] letters = word.toCharArray();

if (lookup(word) == true) return false;

else {

for (int i = 0; i <= word.length(); i++)

{

TrieNode currNode = new TrieNode();

links.put(word.charAt(i), currNode);

currNode = currNode.links.get(word.charAt(i));

}

return true;

}

}

public boolean lookup(String word) {

TrieNode n = root;

for (int i = 0; i < word.length(); i++)

{

n = n.links.get(word.charAt(i));

if (n == null) n.exists = false;

}

return n.exists;

}

}