Data Structures and Algo in Java - Day 32

public class day32

{

public static void main(String[] args) {

// String s = "abcde";

// String goal = "abced";

// if(checkStringIsRotated(s,goal))

// {

// System.out.println("YES");

// }

// else

// {

// System.out.println("NO");

// }

String first = "listen";

String second = "silent";

if(isIsomorphic(first, second))

{

System.out.println("Yes its Isomorphic");

}

else

{

System.out.println("NO");

}

// if(isAnagram(first, second))

// {

// System.out.println("Yes its Anagram");

// }

// else

// {

// System.out.println("NO");

// }

}

public static boolean checkStringIsRotated(String s, String goal)

{

if(s.length()!=goal.length())

{

return false;

}

return (s+s).contains(goal);

}

public static boolean isIsomorphic(String s, String t) {

int map1[]=new int[200];

int map2[]=new int[200];

if(s.length()!=t.length())

return false;

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

{

if(map1[s.charAt(i)]!=map2[t.charAt(i)])

return false;

map1[s.charAt(i)]=i+1;

map2[t.charAt(i)]=i+1;

}

return true;

}

public static boolean isAnagram(String first,String second)

{

if(first.length()!=second.length())

{

return false;

}

int frequencyArray [] = new int [23];

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

{

frequencyArray[first.charAt(i)]++;

frequencyArray[second.charAt(i)]--;

}

for(int count:frequencyArray)

{

if(count!=0)

{

return false;

}

}

return true;

}

}