**Problem 4(String Similarity).**

**package** rohit;

**import** java.util.Scanner;

**public** **class** similarity {

**static** **int** similaritys(String s) {

**char** array[]=s.toCharArray();

**int** leng=array.length;

**int** count=array.length;

**int** j=0;

**for**(**int** i=1;i<leng;i++) {

**int** len=leng-i;

**for** (j=0;j<len;j++)

**if**(array[j]!=array[j+i]) {

**break**;

}

count=count+j;

}

**return** count;

}

**public** **static** **void** main(String args[]) {

Scanner s1=**new** Scanner(System.***in***);

**int** n=s1.nextInt();

String s;

**for**(**int** i=0;i<n;i++) {

s=s1.next();

System.***out***.println(*similaritys*(s));

}

}

}