REC-CIS GE23131-Programming Using C-2024 Quiz navigation Status Finished Started Monday, 23 December 2024, 5:33 PM Completed Thursday, 12 December 2024, 8:10 PM Show one page at a time **Duration** 10 days 21 hours Finish review Question 1 Two strings **A** and **B** comprising of lower case English letters are compatible if they are equal or can be made Correct equal by following this step any number of times: Marked out of 1.00 Select a prefix from the string A (possibly empty), and increase the alphabetical value of all the characters in Flag question the prefix by the same valid amount. For example, if the string is xyz and we select the prefix xy then we can convert it to yx by increasing the alphabetical value by 1. But if we select the prefix xyz then we cannot increase the alphabetical value. Your task is to determine if given strings A and B are compatible. **Input format** First line: String A Next line: String B **Output format** For each test case, print **YES** if string **A** can be converted to string **B**, otherwise print **NO**. Constraints $1 \leq len(A) \leq 1000000$ $1 \leq len(B) \leq 1000000$ SAMPLE INPUT abaca cdbda SAMPLE OUTPUT YES Explanation The string *abaca* can be converted to *bcbda* in one move and to *cdbda* in the next move. Answer: (penalty regime: 0 %) 1 #include<stdio.h> 2 #include(string.h) 3 int main () 4 * { 5 char str1[1000000],str2[1000000]; int flag=1; 6 scanf("%s",str1); scanf("%s",str2); int a=strlen(str1); int b=strlen(str2); 10 **if** (a==b) 11 12 13 1 for(int i=a-1;i>=0;i--) 14 15 * while(str1[i]!=str2[i]) 16 17 v for (int j=0;j<=i;j++) 18 19 20 **if**(str1[j]<'z') str1[j]++; 21 else 22 23 24 flag=0; break; 25 26 if(flag==0) 27 break; 28 29 30 31 32 else 33 flag=0; 34 35 if (flag==0) 36 printf("NO"); 37 else 38 printf("YES"); 39 return 0; 40 41 Input Expected Got YES 🗸 abaca YES cdbda Passed all tests! < Question 2 Danny has a possible list of passwords of Manny's facebook account. All passwords length is odd. But Danny Correct knows that Manny is a big fan of palindromes. So, his password and reverse of his password both should be in the Marked out of list. 1.00 Flag question You have to print the length of Manny's password and it's middle character. Note: The solution will be unique. INPUT The first line of input contains the integer N, the number of possible passwords. Each of the following N lines contains a single word, its length being an odd number greater than 2 and lesser than 14. All characters are lowercase letters of the English alphabet. **OUTPUT** The first and only line of output must contain the length of the correct password and its central letter. **CONSTRAINTS** $1 \le N \le 100$ **SAMPLE INPUT** abc def feg cba **SAMPLE OUTPUT** 3 b Answer: (penalty regime: 0 %) 1 #include<stdio.h> 2 #include(string.h) 3 int main() 4 int n,flag=0; 5 char temp; scanf("%d",&n); char words[n][14]; 9 for (int i=0;i<n;i++)</pre> scanf("%s",words[i]); 10 char reverse[14]; 11 for(int i=0;i<n-1;i++)</pre> 12 13 strcpy(reverse,words[i]); 14 int size=strlen(reverse); 15 16 for (int k=0;k<size/2;k++)</pre> 17 18 19 temp=reverse[k]; reverse[k]=reverse[size-k-1]; 20 reverse[size-k-1]=temp; 21 22 23 for (int j=i+1;j<n;j++)</pre> 24 25 if(strcmp(reverse,words[j])==0) 26 27 28 flag=1; 29 break; 30 31 if(flag==1) 32 33 break; 34 int len=strlen(reverse); 35 printf("%d %c ",len,reverse[len/2]); 36 return 0; 37 38 39 40 41 42 43 44 Input Expected Got 3 b abc def feg cba Passed all tests! < Question 3 Joey loves to eat Pizza. But he is worried as the quality of pizza made by most of the restaurants is deteriorating. Correct The last few pizzas ordered by him did not taste good :(. Joey is feeling extremely hungry and wants to eat pizza. Marked out of But he is confused about the restaurant from where he should order. As always he asks Chandler for help. 1.00 Flag question Chandler suggests that Joey should give each restaurant some points, and then choose the restaurant having maximum points. If more than one restaurant has same points, Joey can choose the one with lexicographically smallest name. Joey has assigned points to all the restaurants, but can't figure out which restaurant satisfies Chandler's criteria. Can you help him out? Input: First line has N, the total number of restaurants. Next N lines contain Name of Restaurant and Points awarded by Joey, separated by a space. Restaurant name has no spaces, all lowercase letters and will not be more than 20 characters. **Output:** Print the name of the restaurant that Joey should choose. **Constraints:** $1 <= N <= 10^5$ 1 <= Points <= 10⁶ **SAMPLE INPUT** 3 Pizzeria 108 Dominos 145 Pizzapizza 49 SAMPLE OUTPUT Dominos **Explanation Dominos** has maximum points. Answer: (penalty regime: 0 %) 1 #include<stdio.h> 2 #include<string.h> 3 int main() int n; scanf("%d",&n); char res[n][21]; int rate[n]; for(int i=0;i<n;i++)</pre> 10 * scanf("%s",res[i]); 11 scanf("%d",&rate[i]); 12 13 14 int max=rate[0]; 15 char ans[20]; 16 strcpy(ans,res[0]); 17 for(int i=1;i<n;i++)</pre> 18 19 if(rate[i]>max) 20 21 * max=rate[i]; 22 strcpy(ans,res[i]); 23 24 25 else if(rate[i]==max) 26 27 if(strcmp(res[i],ans)<0)</pre> 28 strcpy(ans,res[i]); 29 30 31 printf("%s",ans); 32 return 0; 33 34 35 36 37 38 39 40 41 **Expected Got** Input Dominos 🗸 Dominos Pizzeria 108 Dominos 145 Pizzapizza 49 Passed all tests! < Question 4 These days Bechan Chacha is depressed because his crush gave him list of mobile number some of them are valid Correct and some of them are invalid. Bechan Chacha has special power that he can pick his crush number only if he has Marked out of valid set of mobile numbers. Help him to determine the valid numbers. 1.00 Flag question You are given a string "S" and you have to determine whether it is Valid mobile number or not. Mobile number is valid only if it is of length 10, consists of numeric values and it shouldn't have prefix zeroes. Input: First line of input is T representing total number of test cases. Next T line each representing "S" as described in in problem statement. **Output:** Print "YES" if it is valid mobile number else print "NO". Note: Quotes are for clarity. **Constraints:** $1 <= T <= 10^3$ sum of string length <= 10⁵ **SAMPLE INPUT** 3 1234567890 0123456789 0123456.87 SAMPLE OUTPUT YES NO NO Answer: (penalty regime: 0 %) 1 #include<stdio.h> #include<string.h> int main() 4 5 int t; scanf("%d",&t); 6 while(t--) 8 9 int flag=1; char s[100000]; 10 scanf("%s",s); 11 int k=strlen(s); 12 13 if(k==10) 14 15 for(int i=0;i<10;i++) 16 17 18 if(s[0]=='0') 19 flag=0; 20 break; 21 22 if(s[i]<'0'||s[i]>'9') 23 24 flag=0; 25 break; 26 27 28 29 else 30 31 flag=0; if(flag==1) 32 33 printf("YES\n"); 34 else printf("NO\n"); 35 36 return 0; 37 38 39 40 41 42 43 44 45 **Expected Got** Input YES 1234567890 NO NO 0123456789 NO NO 0123456.87 Passed all tests! < Finish review