>> Problem -1 <https://cses.fi/problemset/task/1755/>

> Solution -1

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Observations -

1) Kono akta single character er count jdi even hoi

tahole se nijei akta palindrome

2) Kono akta palindrome ke jdi palindrome er sathe

merge kori..tahole final string tao akta palindrome.

sei khterre sob gula distinct character er count

even hote hbe except 1 ta distinct character chara

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#include<stdio.h>

#include<string.h>

int main()

{

char str[1000005];

scanf("%s",str);

int n=strlen(str),freq[27];

for(int i=1; i<=26; i++)

freq[i]=0;

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

freq[(str[i]-'A')+1]++;

int oddValue=-1,totalCharCount=0,odd=0;

char oddChar;

for(int i=1; i<=26; i++)

{

if(freq[i]>=1)

totalCharCount++;

if(freq[i]%2!=0)

{

oddValue=freq[i];

oddChar=i+64;

freq[i]=0;

odd++;

}

}

if(odd>1)

{

printf("NO SOLUTION\n");

return 0;

}

int i=0,remainingChar=n;

if(oddValue!=-1)

{

totalCharCount-=1;

remainingChar-=oddValue;

}

int l=0,r=(remainingChar/2)-1;

char first[(remainingChar/2)+1],last[(remainingChar/2)+1];

last[(remainingChar/2)]='\0';

while(i!=totalCharCount)

{

int evenValue=-1;

char evenChar;

for(int i=1; i<=26; i++)

{

if(freq[i]>1)

{

evenValue=freq[i];

evenChar=i+64;

freq[i]=0;

break;

}

}

int ii=0,jj=0;

while(ii!=(evenValue/2))

{

first[l]=evenChar;

l++;

ii++;

}

while(jj!=(evenValue/2))

{

last[r]=evenChar;

r--;

jj++;

}

i++;

}

first[l]='\0';

for(int i=0; i<(remainingChar/2); i++)

printf("%c",first[i]);

if(oddValue!=-1)

{

for(int i=1; i<=oddValue; i++)

printf("%c",oddChar);

}

for(int i=0; i<(remainingChar/2); i++)

printf("%c",last[i]);

return 0;

}

>> Problem -2 <https://codeforces.com/contest/1741/problem/A>

Solution -2

#include<stdio.h>

int main()

{

int t;

scanf("%d",&t);

for(int i=1; i<=t; i++)

{

char s1[55],s2[55];

scanf("%s%s",s1,s2);

char ch1,ch2;

int sz1,sz2;

sz1=strlen(s1);

sz2=strlen(s2);

ch1=s1[sz1-1];

ch2=s2[sz2-1];

if(ch1==ch2)

{

if(ch1=='S')

{

if(sz1>sz2)

printf("<\n");

else if(sz1<sz2)

printf(">\n");

else

printf("=\n");

}

else

{

if(sz1>sz2)

printf(">\n");

else if(sz1<sz2)

printf("<\n");

else

printf("=\n");

}

}

else

{

if((ch1=='L' && ch2=='M') || (ch1=='L' && ch2=='S') || (ch1=='M' && ch2=='S'))

printf(">\n");

else

printf("<\n");

}

}

}