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

> Solution -1

```c
/*
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
*/


#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)
```

```c
        {
            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;
            }
        }
```

```c
        }
        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>

```c
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");
```

```c
        }
    }
    else
    {
        if((ch1=='L' && ch2=='M') || (ch1=='L' && ch2=='S') || (ch1=='M' &&
ch2=='S'))
            printf(">\n");
        else
            printf("<\n");
    }
  }
}
```