

简单的加法:

```
1 #include<bits/stdc++.h>
2 using namespace std;
3 int a[1005],b[1005],c[1005];
4 char s1[1005],s2[1005];
5 int main()
6 {
7     freopen("addition.in","r",stdin);
8     freopen("addition.out","w",stdout);
9     int n;
10    cin>>n>>s1>>s2;
11    int l=strlen(s1);
12    for(int i=0;i<l;i++)
13    if(s1[i]>='a'&&s1[i]<='z') a[l-i]=s1[i]-87;
14        else a[l-i]=s1[i]-48;
15    l=strlen(s2);
16    for(int i=0;i<l;i++)
17    if(s2[i]>='a'&&s2[i]<='z') b[l-i]=s2[i]-87;
18        else b[l-i]=s2[i]-48;
19    l=max(strlen(s1),strlen(s2));
20    for(int i=1;i<=l;i++)
21    {
22        c[i]=a[i]+b[i];
23        c[i+1]=c[i]/n;
24        c[i]%=n;
25    }
26    if(c[l+1]) l++;
27    for(int i=l;i>0;i--)
28    if(c[i]>9) cout<<char(c[i]+87) ;
29    else cout<<c[i];
30    // cout<<endl;
31    return 0;
32 }
```

歌唱比赛

```
1 #include<bits/stdc++.h>
2 using namespace std;
3 int n,k,a[100001],b[100001],ans=0;
4 int main()
5 {
6     freopen("singing.in","r",stdin);
7     freopen("singing.out","w",stdout);
8     cin>>n>>k;
9     for (int i=1;i<=n;i++){
10        cin>>a[i];
11    }
12    sort(a+1,a+1+n);
13    for (int i=1;i<n;i++){
14        b[i]=a[i+1]-a[i];
15    }
16    sort(b+1,b+n);
17    for (int i=1;i<=k;i++){
18        ans+=b[i];
19    }
20    cout<<ans;
21    return 0;
22 }
```

分糖果

```
1 #include<bits/stdc++.h>
2 using namespace std;
3
4 int main( ){
5     freopen("candy.in","r",stdin);
6     freopen("candy.out","w",stdout);
7
8     long long n,l,r;
9     cin>>n>>l>>r;
10    if( r-l+1>=n ) cout<<n-1;
11    else
12        if( l%n <= r%n ) cout<<r%n;
13        else cout<<n-1;
14
15 }
```