

A login 做算术

注意中间计算过程中（求幂、乘法加法等）要取模，不然会发生溢出。

```
#include<stdio.h>

const long long MOD=1e9+711;

int main()
{
    int n;
    long long x, ans=0, temp;
    scanf("%d%lld", &n, &x);
    x%=MOD;
    {
        int i;
        for(i=n; i>=0; i--)
        {
            scanf("%lld",&temp);
            ans=(ans*x+temp)%MOD;
        }
    }
    printf("%lld",ans);
    return 0;
}
```

B 悠唯快乐日

注意月份等的判断。

```

#include <stdio.h>
int M[13] = { 0,31,28,31,30,31,30,31,31,30,31,30,31 };

int main()
{
    int yy,mm,dd,num;
    scanf("%d %d %d %d",&yy,&mm,&dd,&num);

    while (num > 0)
    {
        if ((yy % 400 == 0) || ((yy % 4 == 0) && (yy % 100 != 0)))
            M[2] = 29;
        else
            M[2] = 28;

        if ((mm > 12) || (dd > M[mm]))
        {
            printf("Unhappy\n");
            break;
        }

        if (num + dd <= M[mm]) { dd = num + dd; num = 0; break; }
        else
        {
            num = num - M[mm] + dd - 1;
            dd = 1; mm++;
            if (mm > 12) yy++, mm = 1;
        }
    }

    if (num == 0) printf("%d %d %d\n",yy,mm,dd);

    return 0;
}

```

C login 学数论

```
#include<stdio.h>

int main()
{
    int n,m;
    scanf("[%d,%d]",&n,&m);
    {
        int i;
        for(i=n;i<=m;i++)
        {
            int is_prime=1;
            {
                int j;
                for(j=2;j<i;j++)
                {
                    if(i%j==0)
                    {
                        is_prime=0;
                        break;
                    }
                }
            }
            if(is_prime)
            {
                printf("%d ",i);
            }
        }
    }
    return 0;
}
```

D Hugegun 买奶茶

```
#include<stdio.h>
int main()
{
    int t;scanf("%d",&t);
    while(t--)
    {
        long long a,b;
        scanf("%lld%lld",&a,&b);
        a*=b;
        int i,ans=0;
        for(i=1;1LL*i*i<=a;i++)if(a%i==0)
        {
            if(i==a/i)ans++;
            else ans+=2;
        }
        printf("%d\n",ans);
    }
    return 0;
}
```

E 看提示

```
#include<stdio.h>
int main()
{
    int x;
    while(scanf("%d",&x)!=EOF)
    {
        if(((x^233)>>3)&1>0)
            printf("I can see the TiShi\n");
        else
            printf("Nothing\n");
    }
}
```

F 酸奶密室逃脱

```
#include<stdio.h>
int main()
{
    int n,i;
    scanf("%d",&n);
    while(n--)
    {
        int k;
        scanf("%d",&k);
        if(k==10)
        {
            int x;
            scanf("%d",&x);
            int bo=0;
            for(i=30;i>=0;i--)if(x&(1<<i)){bo=1;printf("1");}
            else if(bo)printf("0");
            printf(" ");
            printf("%o %X\n",x,x);
        }
        else
        {
            int len;
            scanf("%d",&len);
            int x=0;
            getchar();
            for(i=1;i<=len;i++)
            {
                char y;scanf("%c",&y);
                int yy;
                if(y>='A'&&y<='Z')yy=y-'A'+10;
                else yy=y-'0';
                x=x*k+yy;
            }
            printf("%d\n",x);
        }
    }
    return 0;
}
```

G

```
#include <stdio.h>
int main(int argc, char const *argv[])
{
    int x;
    int ans = 0;
    scanf("%d", &x);
    while (x) {
        if (x % 2) ans++;
        x /= 2;
    }
    printf("%d\n", ans);
    return 0;
}
```

H 做作业

```
#include<stdio.h>
#include<stdlib.h>
#define ll long long
#define N 1005
int n,m,sum = 0, a[N];
char s[5];
int main(){
    // freopen("in10.txt","r",stdin);
    // freopen("out10.txt","w",stdout);
    scanf("%d", &n);
    int i;
    for(i = 1;i <= n; i++) {
        scanf("%d", &m);
        int j,ok = 1,ans;
        scanf("%d", &ans);
        for(j = 1;j <= (m - 1) / 2; j++) {
            scanf("%s", s);
            int x;
            scanf("%d", &x);
            if(s[0] == '+') ans = ans + x;
            else ans = ans - x;
            if(ans < 0) ok = 0;
        }
        if(ok == 0) {
            sum++;
            a[sum] = i;
        }
    }
    printf("%d\n", sum);
    if(sum != 0) {
        for(i = 1; i <= sum; i++) {
            printf("%d\n", a[i]);
        }
    }
    return 0;
}
```

I 湖泊排序

```
#include <stdio.h>
int main(){
    int dt,hz,py,th;
    for (py=1;py<=4;py++)
        for (dt=1;dt<=4;dt++)
            for (th=1;th<=4;th++)
                for (hz=1;hz<=4;hz++)
                    if( py!=dt && py!=th && py!=hz && dt!=th && dt!=hz && th!=hz )
                    {
                        if ( (dt==1) + (hz==4) + (py==3) == 1 )
                        if ( (hz==1) + (dt==4) + (py==2) + (th==3) == 1 )
                        if ( (hz==4) + (dt==3) == 1 )
                        if ( (py==1) + (th==4) + (dt==3) == 1 )
                            printf("%d %d %d %d\n",hz,py,th,dt);
                    }
    return 0;
}
```


J 致 Ange

```
#include <stdio.h>

int main(){
    int yy,mm,dd;
    int y,m,d;

    scanf("%d%d%d",&y,&m,&d);
    scanf("%d%d%d",&yy,&mm,&dd);

    if (mm==m && dd==d && yy>y)
        printf("Anniversary!");
    else
    {
        printf("%d",dd);
        switch(dd){
            case 1:
            case 21:
            case 31:
                printf("st");
                break;

            case 2:
            case 22:
                printf("nd");
                break;

            case 3:
            case 23:
                printf("rd");
                break;
            default:
                printf("th");
        }
        printf(" ");

        switch(mm){
            case 1: printf("Jan"); break;
            case 2: printf("Feb"); break;
            case 3: printf("Mar"); break;
            case 4: printf("Apr"); break;
            case 5: printf("May"); break;
            case 6: printf("Jun"); break;
            case 7: printf("Jul"); break;
            case 8: printf("Aug"); break;
            case 9: printf("Sept"); break;
            case 10: printf("Oct"); break;
            case 11: printf("Nov"); break;
            case 12: printf("Dec"); break;
        }
        printf(".");
    }

    return 0;
}
```