

```
1 //uva10931
2 #include <stdio.h>
3
4 int main(){
5     int n;
6     scanf("%d", &n);
7
8     while (n != 0){
9         int n1=n, i=0, sum=0;
10        char bstr[32]={'\0'};    //顯示二進位字串
11        int nbin[32];           //儲存二進位結果
12        while (n>0){
13            if (n%2==1){
14                nbin[i]=1;
15                sum+=1;
16                n /= 2;
17                i++;
18            }
19            else{
20                nbin[i]=0;
21                n /= 2;
22                i++;
23            }
24        }
25        for (int j=i-1,k=0; j>=0; j--, k++){ //將二位元結果轉換為二位元字串
26            bstr[k]= nbin[j]+48;
27        }
28        printf("%s %d\n", bstr, sum);
29        scanf("%d", &n);
30
31    }
32    return 0;
33 }
```