

Binary Search(二元搜尋)

Description

請實作Binary Search(二元搜尋)在經過前處理排序的情況底下，搜尋目標資料

Input

第一個值為待搜尋資料數量

每次搜尋

第一段為建立資料串終止輸入

第二段為欲搜尋資料

Output

若有搜尋到該筆資料

輸出提示訊息

若無找到相關資料

輸出提示訊息

Sample Input 1

```
3
1 7 9 5 3 2 4 6 7 6 1 -1
3
5 5 7 9 5 2 3 1 4 5 6 4 -1
5
9999 55555 115161 64581 32158
418 32151 321511 5555 -1
7
```

Sample Output 1

```
Found
Found
Not found
```

Problems

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Information

ID 122802

Time Limit 1000MS

Memory Limit 256MB

IO Mode Standard IO

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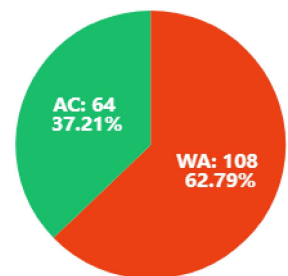
Level Low

Tags [Show](#)

Statistic

Details

AC WA



Language:

C

C

Theme:

Solarized Light

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 int main(){
4     int n,i,b,num=0;
5     scanf("%d",&n);
6     for(i=0;i<n;i++){
7         int j=0,a[100]={0};
8         scanf("%d",&num);
9         while(num!=-1){
10             a[j]=num;
```

```
14     int l,m;
15     for(l=0;l<j;l++){
16         for(m=0;m<j-1;m++){
17             if(a[m]>a[m+1]){
18                 int t=a[m];
19                 a[m]=a[m+1];
20                 a[m+1]=t;
21             }
22         }
23     }
24     scanf("%d",&b);
25     int k=binary_search(a,j,b);
26     if(k==1){
27         printf("Found");
28     }
29     else printf("Not found");
30     if(i!=n-1)printf("\n");
31 }
32 return 0;
33 }
34 int binary_search(int a[],int len,int key);
35 int binary_search(int a[],int len,int key){*(a)*/
36 {
37     int mid,low=0,i,j,k=len;
38     while(low<=len)
39     {
40         mid=(low+len)/2;
41         if(mid>=k)break;
42         for(i=0;i<mid;i++){;}
43         if(mid!=0 || a[mid]==key || a[mid]>key){;}
44         for(j=mid;j<k;j++){;}
45         if(mid!=0 || a[mid]==key || a[mid]>key){;}
46         if(a[mid]==key) return 1;
47         if(a[mid]<key) low=mid+1;
48         else len=mid-1;
```

✓ You have solved the problem

✎ Submit

⚠ Contest has ended