

```

1 // [大理石在那兒? /Where is the Marble?](1/2)
2 #define IN "P13IN.txt"
3 #define OUT "P13OUT.txt"
4 //*****
5 #include <iostream>
6 #include <ctime>
7 using namespace std;
8 void redir(void);
9 //*****
10 /* Work Space*/
11 #include <vector>
12 #include <algorithm>
13 //*****
14 int main(void)
15 {
16     redir(); //redirection
17 //*****
18 /* Work Space*/
19     int kase = 0;
20     int N, Q;
21     int i;
22     int Z;
23     int p;
24
25     while(scanf("%d %d", &N, &Q) == 2 && N){
26         vector<int> a; //block scope
27         printf("CASE# %d:\n", ++kase);
28         for(i=0; i<N; i++){
29             scanf("%d", &Z);
30             a.push_back(Z);
31         }
32
33         sort(a.begin(), a.end());
34
35         while(Q--){
36             scanf("%d", &Z);
37             p = lower_bound(a.begin(), a.end(), Z) - a.begin(); //lower_bound() 尋找大於或等於Z的
            第一個位置
38             if(p < a.size() && a[p] == Z){
39                 printf("%d found at %d\n", Z, p+1);
40             }else{
41                 printf("%d not found\n", Z);
42             }
43         }
44     }
45 //*****
46     freopen("CON", "r", stdin); //取消重新導向
47     freopen("CON", "w", stdout);
48
49     printf("Time used = %.2f\n", (double)clock()/CLK_TCK); //傳回程式目前為止執行的時間
50
51     system("pause");
52     return 0; //the end...
53 }
54
55 void redir(void)
56 {
57     freopen(IN, "r", stdin);
58     freopen(OUT, "w", stdout);
59 }
60 //*****
61
62

```

```
63 //[大理石在那兒？/Where is the Marble?](2/2)
```

```
64 /* Work Space*/
```

```
65 //Input(IN) Sample
```

```
66 /*
```

```
67 4 1
```

```
68 2
```

```
69 3
```

```
70 5
```

```
71 1
```

```
72 5
```

```
73 5 2
```

```
74 1
```

```
75 3
```

```
76 3
```

```
77 3
```

```
78 1
```

```
79 2
```

```
80 3
```

```
81 0 0
```

```
82 */
```

```
83
```

```
84 //Output(OUT)
```

```
85 /*
```

```
86 CASE# 1:
```

```
87 5 found at 4
```

```
88 CASE# 2:
```

```
89 2 not found
```

```
90 3 found at 3
```

```
91 */
```