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**Test Name:** **MP7 B**  
**Taken On:** 26 Apr 2016 17:50:57 PHT  
**Time Taken:** 23 min/ 90 min  
**Invited by:** Ryan  
**Invited on:** 26 Apr 2016 13:40:03 PHT  
**Tags Score:**




**Candidate Feedback:** OHMYGOSH SIR THANK YOU I HAVE AN MP NOT FAILED FOR THE TIME IN FOREVERRRRRRR ~~~~~~ #redeem #again #discuss #please

**Recruiter/Team Comments:**

No Comments.

### Plagiarism flagged

We have marked questions with suspected plagiarism below. Please review.

	Question Description	Time Taken	Score	Status
Q1	<b>Stars Up in the Sky -- How do I Count Thee?</b> > Coding	22 min 45 sec	10/ 10	

#### QUESTION 1



Needs Review

Score 10

### Stars Up in the Sky -- How do I Count Thee? > Coding

#### QUESTION DESCRIPTION

Given n numbers, you are to display the count of each of the numbers present in the input.

Sample Input:

```
5
1 1 7 4 1
```

Sample Output:

```
1: 3
4: 1
7: 1
```



NOTE: Display should be done in increasing or sorted order.

#### CANDIDATE ANSWER

Language used: C

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```
1 #include <math.h>
2 #include <stdio.h>
3 #include <string.h>
4 #include <stdlib.h>
5 #include <assert.h>
6 #include <limits.h>
7 #include <stdbool.h>
8
9 typedef struct holder{
10     int item,count;
11     struct holder *left;
12     struct holder *right;
13 }bnode;
14
15 int addItem(root, x);
16 void display(bnode*);
17
18
19 int main() {
20     bnode *root= NULL;
21     int n;
22     int x;
23
24     scanf("%d", &n);
25     do{
26         scanf("%d", &x);
27         root = addItem(root,x);
28
29         n--;
30     }while(n>0);
31
32     display(root);
33
34     return 0;
35 }
36
37 void display(bnode *n){
38     if(n!=NULL){
39         display(n->left);
40         printf("%d: %d \n", n->item,n->count);
41         display(n->right);
42     }
43 }
44
45 int addItem(bnode *r,int x){
46     if(r==NULL){
47         r = malloc(sizeof(bnode));
48         r->item=x;
49         r->count=1;
50         r->left=NULL;
51         r->right=NULL;
52         return r;
53     }
54     else{
55         if(x>r->item)
56             r->right = addItem(r->right,x);
57         else if(x<r->item)
58             r->left = addItem(r->left,x);
59         else
60             r->count++;
61         return r;
62     }
63 }
64
65
```

TESTCASE	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 2	Easy	 Success	7	0.0 sec	356 KB
Testcase 1	Easy	 Success	3	0.0 sec	2.3 MB

No Comments