## C PROGRAMING

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DEP:ECE-F

WEEK 6

## PRACTICE 1

```
#include<stdio.h>
    int main()
 2
 З ч
        int t;
 4
        scanf("%d",&t);
 5
        while(t--)
 6
 7 🔻
             int n;
 8
             scanf("%d",&n);
             int a[n];
10
11
             for (int i=0;i<n;i++)</pre>
12 •
                 scanf("%d",&a[i]);
13
14
             int k;
15
             scanf("%d",&k);
16
             int flag=0;
17
             for(int i=0;i<n;i++)</pre>
18
19 •
                 for(int j=i+1; j<n; j++)</pre>
20
21 *
                     if(a[i]-a[j]==k||a[j]-a[i]==k)
22
23 🔻
24
                          flag=1;
25
                          break;
26
27
                 if(flag)
28
                 break;
29
30
             printf("%d\n",flag);
31
32
33
```

	Input	Expected	Got	
~	1 3 1 3 5 4	1	1	<b>~</b>
~	1 3 1 3 5 99	0	0	<b>~</b>

Passed all tests! 🗸

```
#include<stdio.h>
    int main()
 3
        int t;
 4
        scanf("%d",&t);
        while(t--)
 7 🔻
            int n,c=0;
 8
            scanf("%d",&n);
            for(int i=0;i<=n;i++)</pre>
10
11 •
                if(i%2!=0) c=c+i;
12
13
            printf("%d\n",c);
14
15
16
```

	Input	Expected	Got	
~	3	1	1	~
	1	1	1	
	2	4	4	
	3			
~	10	1296	1296	~
	71	2500	2500	
	100	1849	1849	
	86	729	729	
	54	400	400	
	40	25	25	
	9	1521	1521	
	77	25	25	
	9	49	49	
	13	2401	2401	
	98			

```
#include<stdio.h>
    int main()
 2
 3
        int s1,s2,ans;
         scanf("%d",&s1);
         int ta [s1];
        for(int i=0;i<s1;i++)</pre>
         scanf("%d",&ta[i]);
         scanf("%d",&s2);
         int tb[s2];
10
        for(int i=0;i<s2;i++)</pre>
11
         scanf("%d",&tb[i]);
12
        for(int j=0;j<s2;j++)</pre>
13
14 ▼
15
             ans=0;
             for(int i=0;i<s1;i++)</pre>
16
17 ▼
                 if(tb[j]>=ta[i])
18
19
                 ans++;
20
             printf("%d\n",ans);
21
22
23
        return 0;
24
```

	Input	Expected	Got	
~	4	2	2	<b>~</b>
	1	4	4	
	4			
	2			
	4			
	2			
	3			
	5			
~	5	1	1	~
	2	0	0	
	10	3	3	
	5	4	4	
	4			
	8			
	4			
	3			
	1			
	7			
	8			

Passed all tests! ✓