C PROGRAMING

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DEP:ECE-F

WEEK 6

PRACTICE 1

```c
#include<stdio.h>
int main()
{
    int t;
    scanf("%d",&t);
    while(t--)
    {
        int n;
        scanf("%d",&n);
        int a[n];
        for (int i=0;i<n;i++)
        {
            scanf("%d",&a[i]);
        }
        int k;
        scanf("%d",&k);
        int flag=0;
        for(int i=0;i<n;i++)
        {
            for(int j=i+1;j<n;j++)
            {
                if(a[i]-a[j]==k||a[j]-a[i]==k)
                {
                    flag=1;
                    break;
                }
            }
            if(flag)
            break;
        }
        printf("%d\n",flag);
    }
}
```

	Input	Expected	Got	
✓	1 3 1 3 5 4	1	1	✓
✓	1 3 1 3 5 99	0	0	✓

Passed all tests! ✓

```c
#include<stdio.h>
int main()
{
    int t;
    scanf("%d",&t);
    while(t--)
    {
        int n,c=0;
        scanf("%d",&n);
        for(int i=0;i<=n;i++)
        {
            if(i%2!=0) c=c+i;
        }
        printf("%d\n",c);
    }
}
```

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

```c
#include<stdio.h>
int main()
{
    int s1,s2,ans;
    scanf("%d",&s1);
    int ta [s1];
    for(int i=0;i<s1;i++)
    scanf("%d",&ta[i]);
    scanf("%d",&s2);
    int tb[s2];
    for(int i=0;i<s2;i++)
    scanf("%d",&tb[i]);
    for(int j=0;j<s2;j++)
    {
        ans=0;
        for(int i=0;i<s1;i++)
        {
            if(tb[j]>=ta[i])
            ans++;
        }
        printf("%d\n",ans);
    }
    return 0;
}
```

	Input	Expected	Got	
✓	4 1 4 2 4 2 3 5	2 4	2 4	✓
✓	5 2 10 5 4 8 4 3 1 7 8	1 0 3 4	1 0 3 4	✓

Passed all tests! ✓