```c
2
3  int main()
4  {
5      int n;
6
7      // Read the number from the user
8      scanf("%d", &n);
9
10     // Generate and print the multiplication table
11     for (int i = 1; i <= 10; i++)
12     {
13         printf("%d x %d = %d\n", n, i, n * i);
14     }
15
16     return 0;
```

Gowurisankar.P
240801089
ECE B

Gowurisankar.P
240801089
ECE B

```c
// Read the number from the user
scanf("%d", &n);

// Generate and print the multiplication table
for (int i = 1; i <= 10; i++)
{
    printf("%d x %d = %d\n", n, i, n * i);
}

return 0;
}
```

	Input	Expected	Got	
✓	2	2 x 1 = 2 2 x 2 = 4 2 x 3 = 6 2 x 4 = 8 2 x 5 = 10 2 x 6 = 12 2 x 7 = 14 2 x 8 = 16 2 x 9 = 18 2 x 10 = 20	2 x 1 = 2 2 x 2 = 4 2 x 3 = 6 2 x 4 = 8 2 x 5 = 10 2 x 6 = 12 2 x 7 = 14 2 x 8 = 16 2 x 9 = 18 2 x 10 = 20	✓

Gowurisankar.P
240801089
ECE B

Gowurisankar.P
240801089
ECE B

```
2  int main() {
3  long int a, b, c = 0;
4  scanf("%ld", &a);
5  scanf("%ld", &b);
6  for (int i=0; i<= a; i++) {
7  c += i;
8  if (c== b) {
9  c = c-1;
10 }
11 }
12 printf("%ld", c % 1000000007);
```

Gowurisankar.P
240801089
ECE B

	Input	Expected	Got	
✓	2 2	3	3	✓
✓	2 1	2	2	✓
✓	3 3	5	5	✓

Passed all tests! ✓

Gowurisankar.P
240801089
ECE B

```c
2
int main() {
    int a, b;
    scanf("%d", &a);
    scanf("%d", &b);

    int c[a], d = 0;

    for (int i = 1; i <= a; i++) {
        if ((a % i) == 0) {
            c[d] = i;
            d++;
            if (d == b) {
                break;
```

Gowurisankar.P
240801089
ECE B

```
16              }
17           }
18        }
19
20     (d < b) ? printf("0") : printf("%d", c[d - 1]);
21
22     return 0;
23 }
```

	Input	Expected	Got	
✓	10 3	5	5	✓
✓	10 5	0	0	✓
✓	1 1	1	1	✓

Gowurisankar.P
240801089
ECE B

Gowurisankar.P
240801089
ECE B

```c
#include<stdlib.h>
int main()
{
    int t;
    scanf("%d",&t);
    while(t--){
        int n,k;
        scanf("%d",&n);
        int a[n];
        for(int i=0;i<n;i++)
        scanf("%d",&a[i]);
        scanf("%d",&k);
        for(int i=0;i<n;i++){
            for(int j=i+1;j<n;j++){
```

```c
            if(abs(a[i]-a[j])==k){
                printf("1\n");
                goto next;
            }
        }
    }printf("0\n");
    next:;
    }
}
```

Gowurisankar.P
240801089
ECE B

Gowurisankar.P
240801089
ECE B

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

Gowurisankar.P
240801089
ECE B

```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	✓

Passed all tests! ✓

Gowurisankar.P
240801089
ECE B

Gowurisankar.P
240801089
ECE B

```c
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++){
```

Gowurisankar.P
240801089
ECE B

```
{
    ans=0;
    for(int i=0;i<s1;i++){
        if(tb[j]>=ta[i])
        ans++;
    }
    printf("%d\n",ans);
}

}
```

	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	✓

Gowurisankar.P
240801089
ECE B

Passed all tests! ✓

Gowurisankar.P
240801089
ECE B

```c
int main(){
    int n,k;
    scanf("%d",&n);
    int arr[n];
    for(int i=0;i<n;i++)
    {
        scanf("%d",&arr[i]);
    }
    scanf("%d",&k);
    for(int a=0;a<=n-k;a++)
    {
        int max=arr[a];
        for(int b=a;b<a+k;b++)
        {
```

Gowurisankar.P
240801089
ECE B

```
15     {
16         if(arr[b]>max){
17             max=arr[b];
18         }
19     }printf("%d ",max);
20     }
21 }
```

	Input	Expected	Got	
✓	8 1 3 5 2 1 8 6 9 3	5 5 5 8 8 9	5 5 5 8 8 9	✓
✓	10 3 7 5 1 2 9 8 5 3 2 3	7 7 5 9 9 9 8 5	7 7 5 9 9 9 8 5	✓

Passed all tests! ✓

Gowurisankar.P
240801089
ECE B

Gowurisankar.P
240801089
ECE B

```c
#include<stdio.h>
int main()
{
    int n,t,count=0;
    scanf("%d",&n);
    int arr[n];
    for(int i=0;i<n;i++)
    {
        scanf("%d",&arr[i]);
    }
    scanf("%d",&t);
    for(int j=0;j<n;j++)
    {
        while(arr[j]>0)
        {
```

Gowurisankar.P
240801089
ECE B

```
16            arr[j]-=t;
17            count++;
18        }
19    }
20    printf("%d",count);
21 }
```

	Input	Expected	Got	
✓	6 5 8 10 13 6 2 3	17	17	✓
✓	7 20 35 57 30 56 87 30 10	33	33	✓

Passed all tests! ✓

Gowurisankar.P
240801089
ECE B

Gowurisankar.P
240801089
ECE B

```c
#include<stdio.h>
void arrays(int arr1[],int n1,int arr2[],int n2,int merged[],int*size
    int i=0,j=0,k=0;
    while(i<n1&&j<n2){
    if(arr1[i]<arr2[j]){
        if(k==0||merged[k-1]!=arr1[i]){
            merged[k++]=arr1[i];
        }i++;
    }
    else if(arr1[i]>arr2[j]){
        if(k==0||merged[k-1]!=arr2[j]){
            merged[k++]=arr2[j];
        }
        j++;
    }
```

Gowurisankar.P
240801089
ECE B

```
16     else{
17         if(k==0||merged[k-1]!=arr1[i]){
18             merged[k++]=arr1[i];
19         }
20         i++;
21         j++;
22     }
23 }
24 while(i<n1){
25     if(k==0||merged[k-1]!=arr1[i]){
26         merged[k++]=arr1[i];
27     }
28     i++;
29 }
30 while(j<n2){
```

Gowurisankar.P
240801089
ECE B

```c
30    while(j<n2){
31        if(k==0||merged[k-1]!=arr2[j]){
32            merged[k++]=arr2[j];
33        }
34        j++;
35    }
36    *size=k;
37    }
38    int main(){
39        int n1,n2;
40        scanf("%d",&n1);
41        int arr1[n1];
42        for(int i=0;i<n1;i++){
43            scanf("%d",&arr1[i]);
44        }
```

Gowurisankar.P
240801089
ECE B

```
45    scanf("%d",&n2);
46    int arr2[n2];
47    for(int i=0;i<n2;i++){
48        scanf("%d",&arr2[i]);
49    }
50    int merged[n1+n2];
51    int mergedsize;
52    arrays(arr1,n1,arr2,n2,merged,&mergedsize);
53    for(int i=0;i<mergedsize;i++){
54    printf("%d ",merged[i]);}
55 }
56
```

Gowurisankar.P
240801089
ECE B

	Input	Expected	Got	
✓	5 1 2 3 6 9 4 2 4 5 10	1 2 3 4 5 6 9 10	1 2 3 4 5 6 9 10	✓