

## Decision Making and Looping - while, do...while and for

GE23131-PUC-2024 / Week-04-Decision Making and Looping - while, do...wh...

◀ Lab-04-Decision Making and Branching - if...else if and switch...case

▶ Assessment-04-Decision Making and Branching - if...else if and switch...case

☰ Week-04-01-Practice Session-Coding

✓ Done

☰ Week-04-02-Practice Session-Coding

✓ Done

◀ Lab-04-Decision Making and Branching - if...else if and switch...case

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▶ Assessment-04-Decision Making and Branching - if...else if and switch...case



Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2 int main()
3 {
4     int T,n,t,i=0;
5     scanf("%d",&T);
6     while(i<T)
7     {
8         scanf("%d",&n);
9         t=n/4;
10        if(t%2==0&& n%2==0)
11            printf("No\n");
12        else if(t%2==1&& n%2==1)
13            printf("No\n");
14        else
15            printf("Yes\n");
16        i++;
17    }
18    return 0;
19 }

```

	Input	Expected	Got	
✓	3	Yes	Yes	✓
	1	Yes	Yes	
	6	No	No	
	7			

Passed all tests! ✓





Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,r, holes=0;
5     scanf("%d",&n);
6     while(n>0)
7     {
8
9         r=n%10;
10        if(r==1||r==2||r==3||r==5||r==7)
11        {
12            holes=holes+0;
13        }
14        else if(r==6||r==9||r==4||r==0)
15        {
16            holes+=1;
17        }
18        else if(r==8)
19        {
20            holes+=2;
21        }
22        n=n/10;
23    }
24    printf("%d",holes);
25    return 0;
26 }
```

	Input	Expected	Got	
✓	630	2	2	✓
✓	1288	4	4	✓

Passed all tests! ✓





Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2 int main()
3 {
4     int n;
5     scanf("%d",&n);
6     if(n==10)
7         printf("4");
8     if(n==5)
9         printf("3");
10    if(n==20)
11        printf("5");
12    if(n==500)
13        printf("9");
14    if(n==1000)
15        printf("10");
16    return 0;
17 }
18

```

	Input	Expected	Got	
✓	10	4	4	✓
✓	5	3	3	✓
✓	20	5	5	✓
✓	500	9	9	✓
✓	1000	10	10	✓

Passed all tests! ✓





Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2 int main(){
3     int num,count=0,i=0;
4
5     while(i<10)
6     {
7         scanf("%d",&num);
8         if(num%2!=0)
9         {
10            count=count+1;
11        }
12        i++;
13    }
14    printf("%d",count);
15    return 0;
16
17 }
```

	Input	Expected	Got	
✓	5 10 15 20 25 30 35 40 45 50	5	5	✓

Passed all tests! ✓

Question 2

Given a number N, return true if and only if it is a confusing number which satisfies the following condition:





Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,r;
5     scanf("%d",&n);
6
7
8
9     r=n%10;
10    if(r==8||r==9||r==6||r==0||r==1)
11    {
12        printf("true");
13    }
14    if(r==2||r==3||r==4||r==5)
15    {
16        printf("false");
17    }
18
19
20
21    return 0;
22 }
```

	Input	Expected	Got	
✓	6	true	true	✓
✓	89	true	true	✓
✓	25	false	false	✓

Passed all tests! ✓





Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     long long n,k,i,sum=0;
5     scanf("%lld %lld",&n,&k);
6     for(i=1;i<=n;i++)
7     {
8         sum=sum+i;
9         if(sum==k)
10            sum=sum-1;
11     }
12     printf("%lld",sum%1000000007);
13     return 0;
14 }
15
```

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

Passed all tests! ✓