

**Answer:** (penalty regime: 0 %)

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

	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     long long int n, t, i, nut = 0;
4     scanf("%lld %lld",&n,&t);
5     for(i=1;i<=n;i++){
6         nut = nut + i;
7         if(nut==t){
8             nut = nut - 1;
9         }
10    }
11    printf("%lld",nut % 1000000007);
12    return 0;
13 }
```

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

Passed all tests! ✓

**Answer:** (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main ()
3 {
4     int T, i=0,n , t;
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        {
12            printf("No\n");
13        }
14        else if (t%2==1 && n%2==1)
15        {
16            printf("No\n");
17        }
18        else
19        {
20            printf("Yes\n");
21        }
22        i++;
23    }
24    return 0;
25 }
```

	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 a,b,n=0;
5      scanf("%d",&a);
6      while(a>0)
7      {
8          b= a % 10;
9          if (b == 0 || b == 6 || b == 9 || b==4)
10         {
11             n = n+1;
12         }
13         else if(b == 8)
14         {
15             n = n+2;
16         }
17         a = a/10;
18     }
19     printf("%d",n);
20     return 0;
21 }
```

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

Passed all tests! ✓

Question **3**

Correct

The problem solvers have found a new Island for coding and named it as Philaland. These smart people were given a task to make the Island easier by distributing various coins with different values. Manish has come up with a solution that if we make coins categories

**Answer:** (penalty regime: 0 %)

```
1  #include<stdio.h>
2  int main()
3  {
4      int n, r = 0;
5      scanf("%d",&n);
6      while(n!=0)
7      {
8          n = n/2;
9          r= r+1;
10     }
11     printf("%d",r);
12     return 0;
13 }
```

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

**Answer:** (penalty regime: 0 %)

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

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

Passed all tests! ✓