

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int t;
5     scanf("%d" ,&t);
6     while(t)
7     {
8
9         int n;
10        scanf("%d" ,&n);
11        t--;
12        int dp[n+1];
13        dp[1]=1;
14        for(int i=2;i<n+1;i++)
15        {
16            for(int k=1;k*k<=i;k++)
17            {
18                if(!(dp[i-k*k]))
19                {
20                    dp[i]=1;
21                }
22                else
23                    dp[i]=0;
24            }
25        }
26        if(dp[n]==1)
27            printf("Yes\n");
28        else
29            printf("No\n");
30    }
31    return 0;
32 }
```

	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 countHoles(int num)
3  {
4      int holes =0;
5      while(num>0)
6      {
7          int digit =num%10;
8          switch(digit)
9          {
10             case 0:case 4:case 6:case 9:
11                 holes+=1;
12                 break;
13             case 8:
14                 holes +=2;
15                 break;
16             }
17             num /=10;
18         }
19     return holes;
20 }
21
22 int main()
23 {
24     int num;
25     scanf("%d",&num);
26     int result =countHoles(num);
27     printf("%d\n",result);
28     return 0;
29 }
```

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

Passed all tests! ✓


```
1  #include<stdio.h>
2  int min_denominations(int N)
3  {
4      int count =0;
5      int value =1;
6      while(value <=N)
7      {
8          count++;
9          value*=2;
10     }
11     return count;
12 }
13 int main()
14 {
15     int N;
16
17     scanf("%d",&N);
18     int result = min_denominations(N);
19     printf("%d\n",result);
20     return 0;
21 }
```


	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 n,x=0;
4     while(scanf("%d",&n)==1)
5     {
6         if(n%2!=0)
7         {
8             x++;
9         }
10    }
11    printf("%d",x);
12    return 0;
13 }
14
15
```

Input

Expected

Got

✓ 5 10 15 20 25 30 35 40 45 50 5 5 ✓

Passed all tests! ✓

```

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

```

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

Passed all tests! ✓


```

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     {
7         nut=nut+i;
8         if(nut==t)
9         {
10             nut=nut-1;
11         }
12     }
13     printf("%lld",nut%1000000007);
14     return 0;
15 }

```

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

Passed all tests! ✓