

Loop X +

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MANISHA M 2024-CSE M2

Nested Loops - while and for, Jumps in Loops

E23131-PUC-2024 / Week-05-Nested Loops - while and for, Jumps in Loops

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

▶ Assessment-05-Decision Making and Looping - while and do...while

Week-05-01-Practice Session-Coding Done

Week-05-02-Practice Session-Coding Done

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

Jump to... ▶ Assessment-05-Decision Making and Looping - while and do...while

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Attempts allowed: 3

This quiz has been configured so that students may only attempt it using the Safe Exam Browser.

Time limit: 2 hours

Grading method: Highest grade

Your attempts

Attempt 1

Status Finished

Started Monday, 23 December 2024, 5:33 PM

Completed Thursday, 19 December 2024, 9:50 AM

Duration 4 days 7 hours

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Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int t;
5     scanf("%d",&t);
6     for(int n=1;n<=t;n++)
7     {
8         int sn;
9         scanf("%d",&sn);
10        for(int i=1;i<=sn;i++)
11        {
12            for(int j=1;j<=sn;j++)
13            {
14                if((i+j)%2==0)
15                {
16                    printf("W");
17                }
18                else
19                {
20                    printf("B");
21                }
22            }
23            printf("\n");
24        }
25    }
26    return 0;
27 }
```

	Input	Expected	Got	
✓	2	NBW	NBW	✓
	3	BWB	BWB	
	5	WBW	WBW	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		WBWBW	WBWBW	

Passed all tests! ✓



ENG
IN 1:04 PM 1/17/2025

Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2 int main()
3 {
4     int t ,n, i,j,sn;
5     char a;
6     scanf("%d",&t);
7     for(n=0;n<t;n++)
8     {
9         scanf("%d %c",&sn,&a);
10        for(i=0;i<sn;i++)
11        {
12            for(j=0;j<sn;j++)
13            {
14                if((i+j)%2==0)
15                {
16                    printf("%c",a);
17                }
18                else{
19                    if(a=='W')
20                        printf("B");
21                    else
22                        printf("W");
23                }
24            }
25            }printf("\n");
26        }
27    }
28    return 0;
29 }
```

	Input	Expected	Got
✓	2	WB	WB
	2 W	BW	BW
	3 B	BWB	BWB
		WBW	WBW
		BWB	BWB

Passed all tests! ✓



Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int a,b,c,d,e,i,j;
5     scanf("%d",&e);
6     for(j=0;j<e;j++)
7     {
8         d=2;
9         scanf("%d",&a);
10        printf("Case#%d\n",j);
11        b=a*a+1;
12        for(c=a;c>0;c--)
13        {
14            if(c==a){
15                for(i=0;i<a;i++)
16                {
17                    printf("%d0",i);
18
19                }
20                for(i=b;i<b+a;i++)
21                {
22                    i==b+a-1?printf("%d",i):
23                    printf("%d0",i);
24                    i=a;
25                }
26            }
27
28        else{
29            for(i=0;i<d;i++)
30            {
31                printf("*");
32                d+=2;
33                i=a;
34                b=b-c;
35                a=i+c;
36                for(i=i+1;i<=a;i++)
37                {
38                    printf("%d0",i);
39                }
40            }
41        }
42    }
43 }
```

```
33 i=a;
34 b=b-c;
35 a=i+c;
36 for(i=i+1;i<=a;i++)
37 {
38     printf("%d0",i);
39 }
40 }
41 for(i=b;i<b+c;i++)
42 {
43     i=b+c-1?printf("%d",i):
44         printf("%d0",i);
45 }
46 i=a;
47 }
48 printf("\n");
49 }
50 }
51 }
52 }return 0;
```

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Attempts allowed: 3

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Your attempts

Attempt 1

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```
1 #include<stdio.h>
2 #include<math.h>
3 int main()
4 {
5     int n;
6     scanf("%d",&n);
7     int x=0,n2=n;
8     while(n2!=0)
9     {
10         x++;
11         n2=n2/10;
12     }
13     int sum=0,n3=n,n4;
14     while(n3!=0)
15     {
16         n4=n3%10;
17         sum=sum+pow(n4,x);
18         n3=n3/10;
19     }
20     if(n==sum)
21     {
22         printf("true");
23     }
24     else
25     {
26         printf("false");
27     }
28 }
29 return 0;
30 }
```

Input	Expected	Got	
✓ 153	true	true	✓
✓ 123	false	false	✓

Passed all tests! ✓

2

Take a number, reverse it and add it to the original number until the obtained number is a palindrome. Constraints $1 \leq \text{num} \leq 99999999$.
Sample Output 1 55 Sample Input 2 789 Sample Output 2 66066

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,rn,nt=0,i=0;
5     scanf("%d",&n);
6     do{
7         nt=n;
8         rn=0;
9         while(n!=0)
10        {
11            rn=rn*10+n%10;
12            n=n/10;
13        }
14        n=nt+rn;
15        i++;
16    }while(rn!=nt || i==1);
17    printf("%d",rn);
18    return 0;
19 }
20 }
```

Input	Expected	Got
✓ 32	55	55 ✓
✓ 789	66066	66066 ✓

Passed all tests! ✓

Answer: (penalty regime: 0 %)

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

	Input	Expected	Got	
✓	34	33344	33344	✓

Passed all tests! ✓

Finish review