

- ✓ Railway - Seating Arrangement for Sleeper Class
- ✓ Basic Calculator
- ✓ Doll Show
- ✓ Week-05-Nested Loops - while and for, Jumps in Loops
- ✓ Week-05-01-Practice Session-Coding
- ✓ Week-05-02-Practice Session-Coding
- ✓ Assessment-05-Decision Making and Looping - while and do...while
- ✓ Coding

Mark as done

Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2 int main()
3 {
4     int T,d,i=0,o,il,iq;
5     char c;
6     scanf("%d",&T);
7     while(i<T)
8     {
9         scanf("%d",&d);
10        il=0;
11        while(il<d)
12        {
13            o=1;
14            iq=0;
15            if(il%2==0)
16            {
17                o=0;
18            }
19            while(iq<d)
20            {
21                c='B';
22                if(iq%2==0)
23                {
24                    c='W';
25                }
26                printf("%c",c);
27                iq++;
28            }
29            il+=1;
30            printf("\n");
31        }
32        i=i+1;
33    }
34 }
```

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int T,d,i,il,iq,o,z;
5     char s;
6     scanf("%d",&T);
7     for(i=0;i<T;i++)
8     {
9         scanf("%d %c",&d,&s);
10        for(il=0;il<d;il++)
11        {
12            z=(s=='W'?0:1);
13            o=(il%2==z)?0:1;
14            for(iq=0;iq<d;iq++)
15            {
16                if(iq%2==o)
17                    printf("W");
18                else
19                    printf("B");
20            }
21            printf("\n");
22        }
23    }
24    return 0;
25 }
```

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

```
2 int main()
3 {
4     int n,v,p3,c,in,i,il,i2,t,ti;
5     scanf("%d",&n);
6     for(ti=0;ti<t;ti++)
7     {
8         v=0;
9         scanf("%d",&n);
10        printf("Case #%d\n",ti+1);
11        for(i=0;i<n;i++)
12        {
13            c=0;
14            if(i>0)
15            {
16                for(il=i;il<i;il++) printf("**");
17            }
18            for(il=i;il<n;il++)
19            {
20                if(i>0) c++;
21                printf("%d",c+v);
22            }
23            if(i==0)
24            {
25                p3=v+(v*(v-1))+1;
26                in=p3;
27            }
28            in=in-c;
29            p3=in;
30            for(i2=i;i2<n;i2++)
31            {
32                printf("%d",p3++);
33                if(i2!=n-1)
34                    printf("0");
35            }
36            printf("\n");
37        }
38    }
39 }
```

Answer: (penalty regime: 0 %)

```
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;
14     int n3=n, n4;
15     while(n3!=0)
16     {
17         n4=n3%10;
18         sum=sum+pow(n4,x);
19         n3=n3/10;
20     }
21     if(n==sum)
22     {
23         printf("true");
24     }
25     else
26     {
27         printf("false");
28     }
29     return 0;
30 }
31 }
```

Take a number, reverse it and add it to the original number until the obtained number is a palindrome. Constraints 1 <=num<=99999999
Sample Input 1 32 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 rn,n,nt=0,i=0;
5     scanf("%d",&n);
6     do{
7         nt=n;rn=0;
8         while(n!=0)
9         {
10            rn=rn*10+n%10;
11            n=n/10;
12        }
13        n=nt+rn;
14        i++;
15    }
16    while(rn!=nt||i==1);
17    printf("%d",rn);
18    return 0;
19 }
```

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

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     {
8         nt=n;
9         while(nt!=0)
10        {
11            co=0;
12            if(nt%10!=3&&nt%10!=4)
13            {
14                co=1;
15                break;
16            }
17            nt=nt/10;
18        }
19        if(co==0)
20        {
21            i++;
22        }
23    }
24 }
25 printf("%d", -n);
26 return 0;
27 }
```

I

Input	Expected	Got
✓	33344	33344 ✓