

C PROGRAMING

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DEP:ECE-F

WEEK 5

PRACTICE 1

```
1 #include<stdio.h>
2 int main()
3 {
4     int T,d,i,i1,i2,o,z;
5     char c,s;
6     scanf("%d",&T);
7     for(i=0;i<T;i++)
8     {
9         scanf("%d %c",&d,&s);
10        for(i1=0;i1<d;i1++)
11        {
12            z=(s=='W')?0:1;
13            o=(i1%2==z)?0:1;
14            for(i2=0;i2<d;i2++)
15            {
16                c=(i2%2==o)?'W':'B';
17                printf("%c",c);
18            }
19            printf("\n");
20        }
21    }
22    return 0;
23 }
```

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

```
1  #include<stdio.h>
2  int main()
3  {
4      int T,d,i=0,i1,i2,o;
5      char c;
6      scanf("%d",&T);
7      while(i<T)
8      {
9          scanf("%d",&d);
10         i1=0;
11         while(i1<d)
12         {
13             o=1;
14             i2=0;
15             if(i1%2==0)
16             {
17                 o=0;
18             }
19             while(i2<d)
20             {
21                 c='B';
22                 if(i2%2==o)
23                 {
24                     c='W';
25                 }
26                 printf("%c",c);
27                 i2++;
28             }
29             i1+=1;
30             printf("\n");
31         }
32         i=i+1;
33     }
34     return 0;
35 }
```

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

Passed all tests! ✓

```

1 #include<stdio.h>
2 int main()
3 {
4     int n,v,p3,c,in,i,i1,i2,t,ti;
5     scanf("%d",&t);
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(i1=0;i1<i;i1++)
17                    printf("***");
18            }
19            for(i1=i;i1<n;i1++)
20            {
21                if(i>0)
22                    c++;
23                printf("%d0",++v);
24            }
25            if(i==0)
26            {
27                p3=v+(v*(v-1))+1;
28                in=p3;
29            }
30            in=in-c;
31            p3=in;
32            for(i2=i;i2<n;i2++)
33            {
34                printf("%d",p3++);
35                if(i2!=n-1)printf("0");

```

```

36     }
37     printf("\n");
38 }
39 }
40 return 0;
41 }

```

	Input	Expected	Got	
✓	3	Case #1	Case #1	✓
	3	10203010011012	10203010011012	
	4	**4050809	**4050809	
	5	****607	****607	
		Case #2	Case #2	
		1020304017018019020	1020304017018019020	
		**50607014015016	**50607014015016	
		****809012013	****809012013	
		*****10011	*****10011	
		Case #3	Case #3	
		102030405026027028029030	102030405026027028029030	
		**6070809022023024025	**6070809022023024025	
		****10011012019020021	****10011012019020021	
		*****13014017018	*****13014017018	
		*****15016	*****15016	
Passed all tests! ✓				

PRACTICE 2

```
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 }
```

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

Passed all tests! ✓


```

1  #include<stdio.h>
2  int main()
3  {
4      int rn,n,nt=0,i=0;
5      scanf("%d",&n);
6      do
7      {
8          nt=n;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     }
17     while(rn!=nt||i==1);
18     printf("%d",rn);
19     return 0;
20 }

```

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

Passed all tests! ✓

```

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         n++;
24     }
25     printf("%d",--n);
26     return 0;
27 }

```

	Input	Expected	Got	
✓	34	33344	33344	✓

Passed all tests! ✓