

Question 2

Correct

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Take a number, reverse it and add it to the original number until the obtained number is a palindrome. Constraints $1 \leq \text{num} \leq 9$

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;while(n!=0)
8         {
9             rn = rn*10+n%10;
10            n=n/10;
11        }
12        n=nt+rn;
13        i++;
14    }
15    while(rn!=nt||i==1);
16    printf("%d",rn);
17    return 0;
18 }
```

	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         {
20             i++;
21         }
22         n++;
23     }
24     printf("%d",--n);
25     return 0;
26 }
```

	Input	Expected	Got	
✓	34	33344	33344	✓

Passed all tests! ✓

Answer: (penalty regime: 0 %)

```
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 }
36
```

	Input	Expected	Got	
✓	2	WBW	WBW	✓
	3	BWB	BWB	
	5	WBW	WBW	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		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         v=0;
8         scanf("%d",&n);
9         printf("Case #%d\n",ti+1);
10        for(i=0;i<n;i++){
11            c=0;
12            if(i>0){
13                for(i1=0;i1<i;i1++){
14                    printf("***");
15                }
16                for(i1=i;i1<n;i1++){
17                    if(i>0) c++;
18                    printf("%d0",++v);
19                }
20                if(i==0){
21                    p3=v+(v*(v-1))+1;
22                    in=p3;
23                }
24                in=in-c;
25                p3=in;
26                for(i2=i;i2<n;i2++){
27                    printf("%d",p3++);
28                    if(i2!=n-1)printf("0");
29                }printf("\n");
30            }
31        }
32        return 0;
33    }

```

	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! ✓

```

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	

Passed all tests! ✓

```

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 }

```

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

Passed all tests! ✓