WEEK 5

Output:

WBW

BWB

WBW

WBWBW

BWBWB

WBWBW

BWBWB

WBWBW

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
int main(){
    int T,d,i=0,i1,i2,o;
    char c;
    scanf("%d",&T);
    while (i<T){
        scanf("%d",&d);
        i1=0;
        while(i1<d){
            o=1;
            i2=0;
            if(i1%2==0){
                o=0;
            }
            while(i2<d){
                c='B';
                if(i2%2==o){
                    c='W';
                }
                printf("%c",c);
                i2++;
            }
            i1+=1;
            printf("\n");
        }
        i=i+1;
    }
    return 0;
}
```

	Input	Expected	Got	
✓	2 3	WBW BWB	WBW BWB	✓

3 B

Output:

WB

BW

BWB

WBW

BWB

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
int main(){
    int T,d,i,i1,i2,o,z;
    char c,s;
    scanf("%d",&T);
    for(i=0;i<T;i++){
        scanf("%d %c",&d,&s);
        for(i1=0;i1<d;i1++){
            z=(s=='W')?0:1;
            o=(i1%2==z)?0:1;
            for(i2=0;i2<d;i2++){
                c=(i2%2==o)?'W':'B';
                printf("%c",c);
            }
            printf("\n");
        }
    }
    return 0;
}
```

	Input	Expected	Got	
✓	2 2 W	WB BW	WB BW	✓

****10011012019020021

******13014017018

********15016

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
int main(){
    int n,v,p3,c,in,i,i1,i2,t,ti;
    scanf("%d",&t);
    for (ti=0;ti<t;ti++){
        v=0;
        scanf("%d",&n);
        printf("Case #%d\n",ti+1);
        for(i=0;i<n;i++){
            c=0;
            if(i>0){
                for(i1=0;i1<i;i1++) printf("**");
            }
        for(i1=i;i1<n;i1++){
            if(i>0) c++;
            printf("%d0",++v);
        }
        if(i==0){
            p3=v+(v*(v-1))+1;
            in=p3;}
        in=in-c;
        p3=in;
        for(i2=i;i2<n;i2++){
            printf("%d",p3++);
            if(i2!=n-1) printf("0");}
        printf("\n");

        }
    }
    return 0;
}
```

	Input	Expected	Got	
✓	3	Case #1	Case #1	✓

1634

Output:

true

Note:

1 <= N <= 10^8

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
#include <math.h>
int main(){
    int n;
    scanf("%d",&n);
    int x=0,n2=n;
    while(n2!=0){
        x++;
        n2=n2/10;}
    int sum=0;
    int n3=n,n4;
    while(n3!=0){
        n4=n3%10;
        sum+=pow(n4,x);
        n3=n3/10;}
    if(n==sum)
        printf("true");
    else
        printf("false");
    return 0;}
```

	Input	Expected	Got	
✓	153	true	true	✓

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 %)

```c
#include <stdio.h>
int main(){
    int rn,n,nt=0,i=0;
    scanf("%d",&n);
    do{
        nt=n;rn=0;
        while(n!=0){
            rn=rn*10+n%10;
            n=n/10;}
        n=nt+rn;
        i++;}
    while(rn!=nt||i==1);
    printf("%d",rn);
    return 0;}
```

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

Passed all tests! ✓

Explanation:

Here the lucky numbers are 3, 4, 33, 34., and the 3rd lucky number is 33.

Sample Input 2:

34

Sample Output 2:

33344

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
int main(){
    int n=1,i=0,nt,co=0,e;
    scanf("%d",&e);
    while(i<e){
        nt=n;
        while(nt!=0){
            co=0;
            if(nt%10!=3 && nt%10!=4){
                co=1;
                break;}
            nt=nt/10;}
        if(co==0)
            i++;
        n++;}
    printf("%d",--n);
    return 0;}
```

	Input	Expected	Got	
✓	34	33344	33344	✓