

Write a program that prints a simple chessboard.

Input format:

The first line contains the number of inputs T.

The lines after that contain a different values for size of the chessboard

Output format:

Print a chessboard of dimensions size * size. Print a Print W for white spaces and B for black spaces.

Input:

2

3

5

Output:

WBW

BWB

WBW

WBWBW

BWBWB

WBWBW

BWBWB

WBWBW

Answer: (penalty regime: 0 %)

```

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

```

	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! ✓

Question 2

Correct

Marked out of
5.00

Flag
question

Let's print a chessboard!

Write a program that takes input:

The first line contains T, the number of test cases

Each test case contains an integer N and also the starting character of the chessboard

Output Format

Print the chessboard as per the given examples

Sample Input / Output

Input:

2
2 W
3 B

Output:

WB
BW
BWB
WBW
BWB

Answer: (penalty regime: 0 %)

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

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

Passed all tests! ✓

Question 3

Correct

Marked out of
7.00

Flag
question

Decode the logic and print the Pattern that corresponds to given input.

If N= 3

then pattern will be :

10203010011012

**4050809

****607

If N= 4, then pattern will be:

1020304017018019020

**50607014015016

****809012013

*****10011

Constraints

$2 \leq N \leq 100$

Input Format

First line contains T, the number of test cases

Each test case contains a single integer N

Output

First line print Case #i where i is the test case number

In the subsequent line, print the pattern

Test Case 1

3

3

4

5

Output

Case #1

10203010011012

**4050809

****607

Case #2

1020304017018019020

Output

Case #1

10203010011012

**4050809

****607

Case #2

1020304017018019020

**50607014015016

****809012013

*****10011

Case #3

102030405026027028029030

**6070809022023024025

****10011012019020021

*****13014017018

*****15016

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int n,v,p3,c,in,i,i1,i2,t,ti;
4     scanf("%d",&t);
5     for(ti=0;ti<t;ti++){
6         v=0;
7         scanf("%d",&n);
8         printf("Case #%d\n",ti+1);
9         for(i=0;i<n;i++){
10             c=0;
11             if(i>0){
12                 for(i1=0;i1<i;i1++){
13                     printf("**");
14                 }
15                 for(i1=1;i1<n;i1++){
16                     if(i>0) c++;
17                     printf("%d0",++v);
18                 }
19                 if(i==0){
20                     p3=v+(v*(v-1))+1;
21                     in=p3;
22                 }
23                 in=in-c;
24                 p3=in;
25                 for(i2=1;i2<n;i2++){
26                     printf("%d",p3++);
27                     if(i2!=n-1)
28                         printf("0");
29                 }
30                 printf("\n");
31             }
32         }
33     }
```

	Input	Expected	Got	
✓	3	Case #1	Case #1	✓
	3	10203010011012	10203010011012	
	4	**4050009	**4050009	
	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! ✓

The k-digit number N is an Armstrong number if and only if the k-th power of each digit sums to N .

Given a positive integer N , return true if and only if it is an Armstrong number.

Example 1:

Input:

153

Output:

true

Explanation:

153 is a 3-digit number, and $153 = 1^3 + 5^3 + 3^3$.

Example 2:

Input:

123

Output:

false

Explanation:

123 is a 3-digit number, and $123 \neq 1^3 + 2^3 + 3^3 = 36$.

Example 3:

Input:

1634

Output:

true

Note:

$1 \leq N \leq 10^8$

Answer: (penalty regime: 0 %)

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int a,b,c=0,d,i,e=1;
4     scanf("%d",&a);
5     for(b=a;b>0;b=b/10){
6         c++;
7     }
8     b=a;
9     for(d=0;b>0;b=b/10){
10         e=1;
11         for(i=0;i<c;i++){
12             e=e*(b%10);
13         }
14         d=d+e;
15     }
16     if(d==a)
17         printf("true");
18     else
19         printf("false");
20     return 0;
21 }
```

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

Passed all tests! ✓

Question 2

Correct

Marked out of
5.00Flag
question

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 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     long long int n,s,r,t,ts;
4     scanf("%lld",&n);
5     while(1){
6         r=0;
7         t=n;
8         while(n){
9             r=r*10+(n%10);
10            n=n/10;
11        }
12        s=t+r;
13        ts=s;
14        r=0;
15        while(s){
16            r=r*10+(s%10);
17            s=s/10;
18        }
19        if(ts==r)
20            break;
21        n=ts;
22    }
23    printf("%lld",ts);
24    return 0;
25 }
```

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

Passed all tests! ✓

A number is considered lucky if it contains either 3 or 4 or 3 and 4 both in it. Write a program to print the nth lucky number. Example, 1st lucky number is 3, and 2nd lucky number is 4 and 3rd lucky number is 33 and 4th lucky n

The program should accept a number 'n' as input and display the nth lucky number as output.

Sample Input 1:

3

Sample Output 1:

33

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 %)

```
1 #include<stdio.h>
2 int main(){
3     int a,b=1,ln=0,i=1,j;
4     scanf("%d",&a);
5     for(;ln<a;i++){
6         for(j=1;j>0;j=j/10){
7             if(j%10==3||j%10==4)
8                 b=1;
9             else{
10                 b=0;
11                 break;
12             }
13         }
14         if(b==1){
15             ln++;
16             if(ln==a){
17                 printf("%d",i);
18                 break;
19             }
20         }
21     }
22 }
```

	Input	Expected	Got	
✓	34	33344	33344	✓

Passed all tests! ✓