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:

Question 1

Correct

Marked out of 3.00

Flag question

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:

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



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```
Answer: (penalty regime: 0 %)
      finclude <stdio.h>
   2 v nt main(){
   3
          int a,b,i,j,k;
   4
          scanf("%d",&b);
          for(k=1; k<=b; k++){
   5 ▼
               scanf("%d",&a);
   6
   7 🔻
               for(i=1;i<=a;i++){
   8 *
                    for(j=1;j<=a;j++)
   9 •
                         if(i%2==1){
  10 •
                             if(j\%2==1)
  11
                                  print
  12
  13
  14 •
                             else if(j
  15
                                  print
  16
  17
                         else if(i%2==
  18 •
  19 •
                             if(j\%2==0)
  20
                                  print
  21
                             else if(j
  22 *
                                  print
  23
                             }
  24
  25
                         }
  26
                    printf("\n");
  27
  28
  29
           }
  30
```

```
scanf("%d",&a);
 7 ▼ for(i=1;i<=a;i++){
        for(j=1;j<=a;j++){
 8 •
             if(i%2==1){
 9 •
10 •
                 if(j\%2==1){
                      printf("W");
11
12
13
                 else if(j\%2==0){
14 •
15
                      printf("B");
16
                 }
17
             else if(i%2==0){
18 •
                 if(j\%2==0){
19 •
                      printf("W");
20
21
22 🔻
                 else if(j\%2==1){
23
                      printf("B");
24
                 }
25
             }
26
        printf("\n");
27
28
29
30
```

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

Incorrect

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

```
Answer: (penalty regime: 0 %)
      #include <stdio.h>
   2 v int main(){
           int a,b,i,j,k;
   3
   4
           char c;
   5
           scanf("%d",&b);
           for (k=0; k<=(b+1); k++)
   6 *
   7
                scanf("%d",&a);
                scanf("%c",&c);
   8
                if(c==66||c==98){
   9 •
  10 •
                     for(i=1;i<=a;i++
  11 *
                         for(j=1;j<=a
  12 *
                              if(i%2==
  13 •
                                  if(j
  14
  15
                                  else
  16 •
  17
  18
                                  }
  19
                              else if(
  20 *
                                  if(j
  21 *
  22
  23
  24 ▼
                                  else
  25
                                  prin
  26
  27
  28
                    printf("\n");
  29
  30
  31
  32
           else if(c=87 | c=119){
  33 *
                for(i=1;i<=a;i++){
  34 ▼
  35 ▼
                     for(j=1;j<=a;j++
  36 ▼
                         if(i%2==1){
  37 ▼
                              if(j%2==(
                                  prin
  38
  39
```



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```
BWB
Answer: (penalty regime: 0 %)
       ato.u>
    2 *
    3
       i,j,k;
    4
    5
       d",&b);
    6 \neq k \leq (b+1); k++)
       f("%d",&a);
    7
       f("%c",&c);
    8
    9 = = 66 | c = 98 
  10 \neq for(i=1; i \le a; i++) \{
            for(j=1;j<=a;j++){
  11 🔻
                if(i%2==1){
  12 🔻
                     if(i\%2==0){
  13 •
  14
                          printf("W");
  15
  16 •
                     else if(j\%2==1){
  17
                          printf("B");
                     }
  18
  19
                else if(j\%2==0){
  20 •
                     if(j\%2==1){
  21 *
                          printf("W");
  22
  23
                     else if(j\%2==0){
  24 *
  25
                     printf("B");
  26
  27
  28
       printf("\n");
  29
  30
  31
  32
```

```
19
                            else if(
20 •
21 🔻
                                 if(j
22
23
                                 }
                                 else
24 *
25
                                 prin
26
                             }
27
                        }
28
                   printf("\n");
29
30
31
32
         else if(c==87 | c==119){
33 •
              for(i=1;i<=a;i++){
34 ▼
                   for(j=1;j<=a;j++</pre>
35 ▼
36 ▼
                        if(i%2==1){
37 ▼
                             if(j%2==
38
                                 prin
39
                            else if(
40 •
41
                                 prin
42
                             }
43
                        else if(i%2=
44 ▼
45 •
                             if(j%2==
46
                                 prin
47
                             }
48 •
                            else if(
49
                                 prin
50
                             }
51
                        }
52
                   printf("\n");
53
54
55
         }
56
57
```

```
19
              }
             else if(j\%2==0){
20 •
21 *
                  if(j\%2==1){
                       printf("W");
22
23
                  }
                  else if(j\%2==0){
24 ▼
                  printf("B");
25
26
27
         }
28
    printf("\n");
29
30
31
32
33 \sqrt{c} = 87 | c = 119 
34 * i=1; i <= a; i++){
35 * for(j=1; j <= a; j++){
         if(i%2==1){
36 ▼
37 ▼
             if(j\%2==0){
                  printf("B");
38
39
              }
             else if(j\%2==1){
40 •
                  printf("W");
41
42
             }
43
         else if(i%2==0){
44 ▼
45 🔻
             if(j%2==1){
                  printf("B");
46
47
              }
48 *
             else if(j\%2==0){
                  printf("W");
49
50
             }
51
         }
52
    printf("\n");
53
54
55
56
```

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

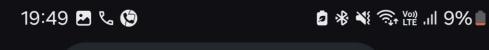
2 <= N <= 100

Input Format

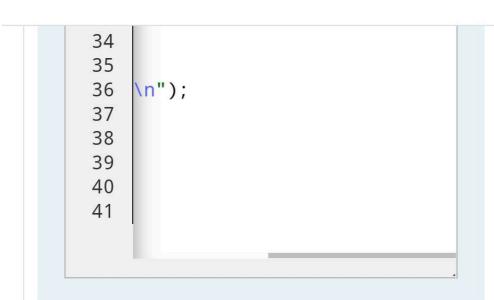
First line contains T, the number of test cases

```
#include <stdio.h>
 2 🔻
    int main(){
 3
         int t,n,x,y,i,z=1,ans,c;
         scanf("%d",&t);
 4
 5 ▼
         while(z<=t){</pre>
              scanf("%d",&n);
 6
              printf("Case #%d\n",
 7
              y=1;
 8
 9
              i=1;
              c=0;
10
11 •
              while(y<=n){</pre>
12
                   x=1;
13
                   ans=(n*n);
                   ans-=c;
14
                   while(x <= 2*n){
15 ▼
                        if(x \le n){
16 •
17
                             if(x<y)p
                        else if(x<=n</pre>
18 •
19
                             printf("
20
                             i++;
                        }}else{
21 *
22 *
                             if((x+y)
23
                                 prin
24
                                  ans+
25
                                 C++;
26 •
                             }else if
27
                                 prin
28
                                  ans+
29
                                  C++;
30
31
                             }
32
                        X++;
33
34
                   y++;
35
                   printf("\n");
36
37
              }
              Z++;
38
39
         }
40
41
    }
```

```
2 🔻
 3
    1, ans, c;
 4
 5 ▼
 6
    n);
 7
     #%d\n",z);
 8
 9
10
11 •
12
13
    );
14
15 = 2*n){
16 ▼ <=n){
17 if(x<y)printf("**");</pre>
18 * if(x <= n){
    printf("%d",i*10);
19
    i++;
20
21 ▼ se{
22 \neq if((x+y)==(2*n)+1){
        printf("%d",(ans+y));
23
24
         ans++;
25
         C++;
26 * else if((x+y) <= (2*n)+1){
        printf("%d",(ans+y)*10);
27
28
         ans++;
29
        C++;
30
31
32
33
34
35
    \n");
36
37
38
39
40
41
```



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	Input	Expected		
~	3	Case #1		
	3	10203010011012		
	4	**4050809		
	5	****607		
		Case #2		
		1020304017018019020		
		**50607014015016		
		****809012013		
		*****10011		
		Case #3		
		102030405026027028029030		
		**6070809022023024025		
		****10011012019020021		
		*****13014017018		
		******15016		

Passed all tests! ✓

Correct

Marked out of 3.00

Flag question

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 = 1³ + 5³ + 3³.

Answer: (penalty regime: 0 %)

```
#include <stdio.h>
    #include <math.h>
 2
    int main(){
 3 ▼
        int n,original,sum=0,k=0
 4
        scanf("%d",&n);
 5
        original=n;
 6
        int temp=n;
7
        while(temp>0){
 8 •
             k++;
 9
             temp/=10;
10
11
12
        temp=n;
        while(temp>0){
13 •
             int digit=temp%10;
14
             sum+=pow(digit,k);
15
             temp/=10;
16
17
18 •
        if(sum==original){
             printf("true\n");
19
20
         }
        else{
21 🔻
             printf("false\n");
22
23
        }
    }
24
```

	Input	Expected	Got	
~	153	true	true	~
~	123	false	false	~

Passed all tests! ✓

Correct

Marked out of 5.00

Flag question

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 %)

```
#include <stdio.h>
 2 *
    int main(){
         long int a,d,rd,o,oa,tem
 3
 4
         int c=0;
 5
         scanf("%ld",&a);
 6 •
         do{
 7
             rd=0;
 8
             o=a;
             while(a>0){
 9 •
                  temp=a%10;
10
                  rd=rd*10+temp;
11
                  a/=10;
12
13
14
             }
15
             o+=rd;
16
             oa=o;
17
             d=0;
             while(o>a){temp=o%10
18 •
             d=d*10+temp;
19
20
             o/=10;
21
22
         if(oa==d){printf("%ld",o
23
         c=1;
21
         کمی آم
```

```
hclude <stdio.h>
2 t main(){
3
      long int a,d,rd,o,oa,temp;
4
      int c=0;
      scanf("%ld",&a);
5
6 ▼
      do{
7
          rd=0;
8
          o=a;
9 •
          while(a>0){
10
              temp=a%10;
               rd=rd*10+temp;
11
12
              a/=10;
13
14
          }
15
          o+=rd;
16
          oa=o;
17
          d=0;
18 •
          while(o>a){temp=o%10;
          d=d*10+temp;
19
20
          o/=10;
21
      }
      if(oa==d){printf("%ld",oa);
22
23
      c=1;}
      else{
24 ▼
25
          a=oa;
26
      }
27
      }while(!c);
28
29
30
```

	Input	Expected	Got	
~	32	55	55	~
~	789	66066	66066	~

Correct

Marked out of 7.00

Flag question

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 number is 34 and so on. Note that 13, 40 etc., are not lucky as they have other numbers in it.

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:

Answer: (penalty regime: 0 %)

```
#include <stdio.h>
 1
 2 •
    int main(){
 3
         int n,count=0;
 4
         long int num=0;
 5
         scanf("%d",&n);
 6 •
         while(count<n){</pre>
 7
             num++;
             long int temp=num;
 8
             int islucky=1;
 9
             while(temp>0){
10 •
11
                  int digit=temp%1
12 🔻
                  if(digit!=3 && d
                      islucky=0;
13
                      break;
14
15
16
                  temp/=10;
17
             if(islucky){
18 🔻
19
                  count++;
20
             }
21
22
         printf("%ld", num);
    }
23
24
25
```

	Input	Expected	Got	
~	34	33344	33344	~

Passed all tests! 🗸

Answer: (penalty regime: 0 %)

```
<stdio.h>
 1
 2 \( ( ) \{
3 \text{ n,count=0};
 4
   int num=0;
   f("%d",&n);
6 ve(count<n){
   num++;
   long int temp=num;
   int islucky=1;
 9
10 while(temp>0){
11
        int digit=temp%10;
        if(digit!=3 && digit!=4){
12 🔻
            islucky=0;
13
            break;
14
15
16
        temp/=10;
17
18 vif(islucky){
19
        count++;
20
21
22
   tf("%ld",num);
23
24
25
```

	Input	Expected	Got	
~	34	33344	33344	~

Passed all tests! 🗸