

# GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Tuesday, 26 November 2024, 11:44 PM
Duration	26 days 17 hours

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:

2  
3

Output:

WBW

BWB

WBW

WBWBW

BWBWB

WBWBW

BWBWB

WBWBW

**Answer:** (penalty regime: 0 %)

```
1  #include<stdio.h>
2  int main(){
3  int a,b,i,j,k;
4  scanf("%d",&b);
5  for(k=1;k<=b;k++){
6      scanf("%d",&a);
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                     printf("W");
12                 }
13                 else if(j%2==0){
14                     printf("B");
15                 }
16             }else if (i%2==0){
17                 if(j%2==0){
18                     printf("W");
19                 }
20                 else if(j%2==1){
21                     printf("B");
22                 }
23             }
24         }
25     }
26 }
```

```
24 |         }
25 |
26 |     }
27 |     printf("\n");
28 | }
29 |
30 | }
31 | return 0;
32 | }
```

	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! ✓

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

### 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 a,b,i,j,k;
4     char c;
```

```
8 scanf("%c",&c);
9 if(c==66||c==98){
10     for(i=1;i<=a;i++){
11         for(j=1;j<=a;j++){
12             if(i%2==1){
13                 if(j%2==0){
14                     printf("W");
15                 }else if(j%2==1){
16                     printf("B");
17                 }
18             } else if(i%2==0){
19                 if(j%2==1){
20                     printf("W");
21                 }else if(j%2==0){
22                     printf("B");
23                 }
24             }
25             printf("\n");
26         }
27     }
28     else if(c==87||c==119){
29         for(i=1;i<=a;i++){
30             for(j=1;j<=a;j++){
31                 if(i%2==1){
32                     if(j%2==0){
33                         printf("B");
34                     }
35                     else if(j%2==1){
36                         printf("W");
37                     }
38                 }
39                 else if (i%2==0){
40                     if(j%2==1){
41                         printf("B");
42                     }
43                     else if(j%2==0){
44                         printf("W");
45                     }
46                 }
47             }
48             printf("\n");
49         }
50     }
51 }
```

	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

2 <= N <= 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

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 t,n,x,y,i,z=1,ans,c;
4      scanf("%d",&t);
5      while(z<=t){
6          scanf("%d",&n);
7          printf("Case #%d\n",z);
8          y=1;
9          i=1;
10         c=0;
11         while(y<=n){
12             x=1;
13             ans=(n*n);
14             ans-=c;
15             while(x<=2*n){
16                 if(x<=n){
17                     if(x<y)
18                         printf("**");
19                     else if(x<=n){

```



```
22  }else{
23      if((x+y)==(2*n)+1){
24          printf("%d", (ans+y));
25          ans++;
26          c++;
27      }else if((x+y)<=((2*n)+1)){
28          printf("%d", (ans+y)*10);
29          ans++;
30          c++;
31      }}
32      x++;}
33      y++;
34      printf("\n");
35      }z++;
36  }}
37
```

	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	

Finish review