

# GE23131-Programming Using C-2024

Quiz navigation

1

2

3

Show one page at a time

Finish review

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Tuesday, 26 November 2024, 10:58 PM
Duration	26 days 18 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                 }
17             else if(i%2==0){
18                 if(j%2==0){
19                     printf("W");
20                 }
21             }

```

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

	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

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

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;
5     scanf("%d",&b);
6     for(k=0;k<=(b+1);k++){
7         scanf("%d",&a);
8         scanf("%c",&c);
9         if(c==66 || c==98){
```

```
12 11 (i%2==1){
13     if(j%2==0){
14         printf("W");
15     }
16     else if (j%2==1){
17         printf("B");
18     }
19 }
20 else if(i%2==0){
21     if(j%2==1){
22         printf("W");
23     }
24     else if(j%2==0){
25         printf("B");
26     }
27 }
28 }
29 printf("\n");
30 }
31 }
32 else if(c==87||c==119){
33     for(i=1;i<=a;i++){
34         for(j=1;j<=a;j++){
35             if(i%2==1){
36                 if(j%2==0){
37                     printf("B");
38                 }
39                 else if(j%2==1){
40                     printf("W");
41                 }
42             }
43             else if(i%2==0){
44                 if(j%2==1){
45                     printf("B");
46                 }
47                 else if(j%2==0){
48                     printf("W");
49                 }
50             }
51         }
52     }
53     printf("\n");
```


	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 }
33     x++;
34 }
35     y++;
36     printf("\n");
37 }
38     z++;
39 }
40     return 0;
41 }
```

	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	

Passed all tests! ✓

Finish review