

# GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Tuesday, 26 November 2024, 2:17 PM
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Question 1

Correct

Marked out of 3.00

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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 a;
4  scanf("%d",&a);
5  int b[a];
6  for(int i=0;i<a;i++)
7  {scanf("%d",&b[i]);}
8  for(int i=0;i<a;i++)
9  {int o=b[i];
10 int q=1;
11 for(int j=1;j<=b[i];j++)
12 {for(int k=q;k<=o;k++)
13 {k%2==1?printf("W"):printf("B");}
14 q++;o++;printf("\n");}}}
```

	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

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;
4 scanf("%d",&a);
5 int b[a];
6 char c[a],s;
7 for(int i=0;i<a;i++)
8 {scanf("%d",&b[i]);
9 scanf("%c",&c[i]);
10 scanf("%c",&s);}
11 for(int i=0;i<a;i++)
12 {int o=b[i];
13 int q=1;
14 for(int j=1;j<=b[i];j++)
15 {for(int k=q;k<=o;k++)
16 {if(c[i]=='B')
17 printf("%c",c[k]);
18 if(k==o)
19 printf("\n");
20 if(j==b[i])
21 printf("%c",s);
22 if(j!=b[i])
23 printf(" ");
24 }
25 }
26 }
```

```

17 {k%2==0?printf("W"):printf("B");}
18 else
19 k%2==1?printf("W"):printf("B");}
20 q++;
21 o++;
22 printf("\n");}}}}
23

```

	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

\*\*50607014015016

\*\*\*\*809012013

\*\*\*\*\*10011

Case #3

102030405026027028029030

\*\*6070809022023024025

\*\*\*\*10011012019020021

\*\*\*\*\*13014017018

\*\*\*\*\*15016

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

```
1 #include<stdio.h>
2 int main()
3 {int k,q,a,z;
4 scanf("%d",&a);
5 int b[a];
6 for(int i=0;i<a;i++)
7 scanf("%d",&b[i]);
8 for(int h=0;h<a;h++)
9 {printf("Case #%d",h+1);
10 printf("\n");
```

```

11 k=1;q=0;
12 z=b[h];
13 for(int n=1;n<=z;n++)
14 {for(int m=1;m<=n;m++)
15 {q=q+1;}}
16 q=(2*q)-(z-1);
17 for(int i=0;i<b[h];i++)
18 {for(int j=0;j<i;j++)
19 {printf("**");}
20 for(int j=0;j<b[h]-i;j++)
21 {printf("%d0",k+j);}
22 for(int j=0;j<b[h]-i;j++)
23 {printf("%d",q+j);}
24 if(j!=(b[h]-i-1))
25 printf("0");}
26 k=k+b[h]-i;
27 q=q-(z-1);
28 z--;
29 printf("\n");}}}
30

```

	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	



Passed all tests! ✓

Finish review