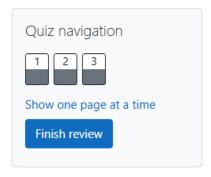
## GE23131-Programming Using C-2024

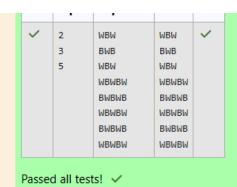




BWB
WBW
WBWBW
BWBWB
WBWBW
BWBWB

## Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2 v int main(){
        int a,b,i,j,k;
3
        scanf("%d",&b);
4
5 ,
        for(k=1;k<=b;k++){
            scanf("%d",&a);
6
7 •
            for(i=1;i<=a;i++){
8 ,
                for(j=1;j<=a;j++){</pre>
9 ,
                    if(i%2==1){
10 ,
                        if(j%2==1){
11
                            printf("W");
12
                        else if(j%2==0){
13 1
14
                            printf("B");
15
16
                    else if(i%2==0){
17 ,
18
                        if(j%2==0){
19
                            printf("W");
20
                        else if(j%2==1){
21
22
                            printf("B");
23
24
25
                printf("\n");
26
27
28
29
        return 0;
30 }
```



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 v 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){
                 for(i=1;i<=a;i++){</pre>
10
                     for(j=1;j<=a;j++){</pre>
11 ,
12 1
                         if(i%2==1){
                              if(j\%2==0){
13 1
14
                                  printf("W");
15
16
                              else if(j%2==1){
17
                                  printf("B");
18
19
20
                         else if(i%2==0){
21 1
                              if(j%2==1){
22
                                  printf("W");
23
24
                              else if(j\%2==0){
                                  printf("B");
25
26
27
28
29
                     printf("\n");
30
31
             else if(c==87||c==119){
32 v
33 1
                 for(i=1;i<=a;i++){
34 •
                     for(j=1;j<=a;j++){</pre>
35 •
                         if(i%2==1){
36 •
                              if(j%2==0){
37
                                  printf("B");
38
39 •
                              else if(j\%2==1){
```

```
printf("W");
40
41
42
                       else if(i%2==0){
43 •
44 ,
                           if(j%2==1){
45
                               printf("B");
46
                           else if(j%2==0){
47
                               printf("W");
48
49
50
51
                   printf("\n");
52
```

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

Passed all tests! 🗸

Question  $\bf 3$ 

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 <= 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
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 v int main(){
3
       int t,n,x,y,i,z=1,ans,c;
4
        scanf("%d",&t);
        while(z<=t){
6
            scanf("%d",&n);
7
            printf("Case #%d\n",z);
8
           y=1;
9
            i=1;
10
            c=0;
            while(y<=n){
11 1
12
                x=1;
13
                ans=(n*n);
14
                ans-=c;
15 1
                while(x <= 2*n){
                   if(x<=n){
16
17
                       if(x<y)
            printf("**");
18
19
            else if(x<=n){
20
                printf("%d",i*10);
21
               i++;
22 *
            }}else{
                 if((x+y)==(2*n)+1){
23 v
24
                    printf("%d",(ans+y));
25
                    ans++;
26
                    C++;
27 v
                   else if((x+y)<=(2*n)+1){
```

```
printf("%d",(ans+y)*10);
28
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	
<b>~</b>	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