

REC-CIS

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Finish review

Duration 4 days 8 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

5

Output:

WBW

BWB

WBW

WBWBW

BWBWB

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Week-05-01-Practice Se...
GE23131-Programming U...

Week-04-02-Practice Se...
GE23131-Programming U...

Week-04-01-Practice Se...
GE23131-Programming U...

Show more items

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2 void cb(int size)
3 {
4     char square[]={'W','B'};
5     for (int i=0;i<size;i++){
6         for(int j=0;j<size;j++){
7             printf("%c",square[(i+j)%2]);
8         }
9         printf("\n");
10    }
11 }
12 int main(){
13     int t;
14     scanf("%d",&t);
15     while(t--){
16         int size;
17         scanf("%d",&size);
18         cb(size);
19     }
20     return 0;
21 }
```

✓	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! ✓

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Recently accessed items

Week-05-01-Practice Se...
GE23131-Programming U...

Week-04-02-Practice Se...
GE23131-Programming U...

Week-04-01-Practice Se...
GE23131-Programming U...

Show more items

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

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Recently accessed items

Week-05-01-Practise Se...
GE23131-Programming U...

Week-04-02-Practise Se...
GE23131-Programming U...

Week-04-01-Practise Se...
GE23131-Programming U...

Show more items

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2 void cb(int size,char start){
3     char square[]={start,(start=='w')?'B':'w'};
4     for (int i=0;i<size;i++){
5         for (int j=0;j<size;j++){
6             printf("%c",square[(i+j)%2]);
7         }
8         printf("\n");
9     }
10 }
11 int main(){
12     int t;
13     scanf("%d",&t);
14     while(t--){
15         int size;
16         char start;
17         scanf("%d %c",&size,&start);
18         cb(size,start);
19     }
20     return 0;
21 }
```

	Input	Expected	Got	
✓	2	wB	wB	✓
	2 w	Bw	Bw	
	3 B	BwB	BwB	
		wBw	wBw	
		BwB	BwB	

Passed all tests! ✓

Question 3

Decode the logic and print the Pattern that corresponds to given input.

Customise this page

Recently accessed items

- Week-05-01-Practice Se...
GE23131-Programming U...
 - Week-04-02-Practice Se...
GE23131-Programming U...
 - Week-04-01-Practice Se...
GE23131-Programming U...
- Show more items

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

[Customise this page](#)

Recently accessed items

 Week-05-01-Practice Se...
GE23131-Programming U... Week-04-02-Practice Se...
GE23131-Programming U... Week-04-01-Practice Se...
GE23131-Programming U...[Show more items](#)


```
1 #include <stdio.h>
2 int main(){
3     int t;
4     scanf("%d",&t);
5     for(int x=1;x<=t;x++){
6         printf("Case #d\n",x);
7         int n;
8         scanf("%d",&n);
9         int f=1,b=n*(n+1);
10        for (int i=0;i<n;i++){
11            for(int k=0;k<2*i;k++){
12                printf("**");
13            }
14            printf("%d",f);
15            f++;
16            for (int j=2;j<=n-i;j++){
17                printf("%d",f);
18                f++;
19            }
20            for (int l=b-(n-i)+1;l<=b;l++){
21                printf("%d",l);
22            }
23            b -= n-i;
24            printf("\n");
25        }
26        return 0;
27    }
28 }
29
```

✓	Input	Expected	Got	✓
3	Case #1	Case #1	Case #1	
3	10203010011012	10203010011012	10203010011012	
4	**4050809	**4050809	**4050809	
5	***607	***607	***607	
	Case #2	Case #2	Case #2	
	1020304017018019020	1020304017018019020	1020304017018019020	
	**50607014015016	**50607014015016	**50607014015016	

Customise this page

Recently accessed items

Week-05-01-Practice Se...
GE23131-Programming U...

Week-04-02-Practice Se...
GE23131-Programming U...

Week-04-01-Practice Se...
GE23131-Programming U...

Show more items

```
19 }
20 * for (int l=b-(n-i)+1;l<=b;l++){
21     printf("%0d",l);
22 }
23     b -= n-i;
24     printf("\n");
25 }
26 return 0;
27 }
28
29 I
```

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

Passed all tests! ✓

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Customise this page

Recently accessed items

Week-05-01-Practice Se...
GE23131-Programming U...

Week-04-02-Practice Se...
GE23131-Programming U...

Week-04-01-Practice Se...
GE23131-Programming U...

Show more items