S2 **SANJAYRAM M 2024-CSE**

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
WBWBW
BWBWB
WBWBW

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
int main(){
    int t,size;
    scanf("%d",&t);
    while(t--){
        scanf("%d",&size);
        for(int i=0;i<size;i++){
            for(int j=0;j<size;j++){
                if((i+j)%2==0)
                printf("W");
                else
                printf("B");
            }
            printf("\n");
        }
    }
    return 0;
}
```

	Input	Expected	Got	
✓	2 3 5	WBW BWB WBW WBWBW BWBWB WBWBW BWBWB WBWBW	WBW BWB WBW WBWBW BWBWB WBWBW BWBWB WBWBW	✓

Passed all tests! ✓

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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 %)

```c
#include <stdio.h>
int main(){
    int t,n;
    char ch;
    scanf("%d",&t);
    while(t--){
        scanf("%d %c",&n,&ch);
        for(int i=0;i<n;i++){
            for(int j=0;j<n;j++){
                if(ch=='W'){
                if((i+j)%2==0)
                printf("W");
                else
                printf("B");
                }
            else{
                if((i+j)%2==0)
                printf("B");
                else
                printf("W");
            }
            }
            printf("\n");
            }
}
return 0;
}
```

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

Passed all tests! ✓

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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 <= N <= 100

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
int main(){
    int t,n,x,y,z=1,i,ans,c;
    scanf("%d",&t);
    while(z<=t){
        scanf("%d",&n);
        printf("Case #%d\n",z);
        y=1;
        i=1;
        c=0;
        while(y<=n){
            x=1;
            ans=(n*n);
            ans=ans-c;
            while(x<=2*n){
                if(x<=n){
                    if(x<y){
                    printf("**");}
                    else if(x<=n){
                    printf("%d",i*10);
                    i++;}
                }
                else{
                    if ((x+y)==(2*n)+1){
                    printf("%d",(ans+y));
                    ans++;
                    c++;}
                 else if(x+y<=(2*n)+1){
                 printf("%d",(ans+y)*10);
                 ans++;
                 c++;}
                }
                x++;
            }
            y++;
            printf("\n");
        }
        z++;
    }
    return 0;

}
```

	Input	Expected	Got	
✓	3 3 4 5	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 10203040502602702802903O **607080902202302402S ****10011012019020021 ******13014017018 ********15016	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 10203040502602702802903O **607080902202302402S ****10011012019020021 ******13014017018 ********15016	✓

Passed all tests! ✓