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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

Answer: (penalty regime: 0 %)

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

	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

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Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
void cb(int size,char start){
char square[]={start,(start=='W')?'B':'W'};
for (int i=0;i<size;i++){
    for (int j=0;j<size;j++){
        printf("%c",square[(i+j)%2]);
    }
    printf("\n");
}
}
int main(){
    int t;
    scanf("%d",&t);
    while(t--){
        int size;
        char start;
        scanf("%d %c",&size,&start);
        cb(size,start);
    }
    return 0;
}
```

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

Passed all tests! ✓

Question **3**

Correct

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

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

Input Format

First line contains T, the number of test cases
Each test case contains a single integer N

```c
#include <stdio.h>
int main(){
    int t;
    scanf("%d",&t);
    for(int x=1;x<=t;x++){
        printf("Case #%d\n",x);
        int n;
        scanf("%d",&n);
        int f=1,b=n*(n+1);
        for (int i=0;i<n;i++){
            for(int k=0;k<2*i;k++){
                printf("*");
            }
            printf("%d",f);
            f++;
            for (int j=2;j<=n-i;j++){
                printf("0%d",f);
                f++;
            }
            for (int l=b-(n-i)+1;l<=b;l++){
                printf("0%d",l);
            }
            b -= n-i;
            printf("\n");
        }
    }
    return 0;
}
```

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

```
            }
            for (int l=b-(n-i)+1;l<=b;l++){
                printf("0%d",l);
            }
            b -= n-i;
            printf("\n");
        }
    }
    return 0;
}
```

	Input	Expected	Got	
✓	3 3 4 5	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 10203040502602702802903 0 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 10203040502602702802903 0 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	✓

Passed all tests! ✓

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