GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Tuesday, 10 December 2024, 1:06 PM
Duration	13 days 4 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

WBWBW

BWBWB

WBWBW

Answer: (penalty regime: 0 %)

```
1  #include<stdio.h>
2  int main(){
3      int T,size,i,j;
4      scanf("%d",&T);
5      while(T--){
```

```
        scanf("%d",&size);
        for(i=0;i<size;i++){
            for(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! ✓

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,i,j;
    char ch;
    scanf("%d",&T);
    while(T--){
        scanf("%d %c",&N,&ch);
        for(i=0;i<N;i++){
            for(j=0;j<N;j++){
                printf("%c",ch);
                ch=(ch=='W')?'B':'W';
            }
            printf("\n");
            if(N%2==0){
                ch=(ch=='W')?'B':'W';
            }
        }
    }
    return 0;
}
```

	Input	Expected	Got	
✓	2 2 W 3 B	WB BW BWB WBW BWB	WB BW BWB WBW 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 <= 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
4
5

Output

Case #1
10203010011012
**4050809
****607
Case #2
1020304017018019020
**50607014015016
****809012013
******10011
Case #3
10203040502602702802 9030
**6070809022023024025
****10011012019020021
******13014017018
********15016

Answer: (penalty regime: 0 %)

```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 ****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! ✓

Finish review