GE23131-Programming Using C-2024

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Thursday, 19 December 2024, 11:52 AM
Duration	4 days 6 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 %)

```c
#include<stdio.h>
int main()
{
    int T,size,t;
    scanf("%d",&T);
    for (t=0;t<T;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");
```

	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;
    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
```

	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 :

102030100110120
**4050809
****607

If N= 4. then pattern will be

102030401701801920
**5060701401501016
****809010013
******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
102030100110120
**4050809
****607
Case #2
102030401701801920
**5060701401501016
****809010013
******10011
Case #3
102030405026027028029030
**607080902302402425
****100110120019020021
******130140170116
*******15016

Answer: (penalty regime 0 %)

```c
#include<stdio.h>
int main()
{
    int t,s,a,y,z=1,i,ata,c;
    scanf("%d", &t);
    while (s<=t)
    {
        scanf("%d",&n);
        printf("Case #%d\n",s);
        y=1;
        i=1;
        c=1;
        while(y<=n)
        {
            a=1;
            ata=(n*y);
            ata= ata-c;
            while (a<=(n-y))
```

	Input	Expected	Got	
✓	3 3 4 5	Case #1 102030100110120 **4050809 ****607 Case #2 102030401701801920 **5060701401501016 ****809010013 ******10011 Case #3 102030405026027028029030 **607080902302402425 ****100110120019020021 ******130140170116 *******15016	Case #1 102030100110120 **4050809 ****607 Case #2 102030401701801920 **5060701401501016 ****809010013 ******10011 Case #3 102030405026027028029030 **607080902302402425 ****100110120019020021 ******130140170116 *******15016	✓

Passed all tests! ✓