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GE23131-Programming Using C-2024

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Started	Monday, 23 December 2024, 5:33 PM
Completed	Thursday, 5 December 2024, 9:36 AM
Duration	18 days 7 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,arr[100];
    scanf("%d", &t);
    for(int i=0;i<t;i++){
        scanf("%d", &arr[i]);

    }
    for(int z=0;arr[z]!='\0';z++){
        for(int j=0;j<arr[z];j++){
            for(int i=0;i<arr[z];i++){
                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,d,i1,i2,o,z;
    char s,c;

    scanf("%d", &T);
    for(int i=0;i<T;i++){
        scanf("%d %c", &d,&s);
        for(i1=0;i1<d;i1++){
            z=(s=='W')?0:1;
            o=(i1%2==z)?0:1;
            for(i2=0;i2<d;i2++)
            {
                c=i2%2==o?'W':'B';
                printf("%c",c);
```

```
16                  }
17
18
19
20                  printf("\n");
21              }
22          }
23          return 0;
24      }
```

	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 n;
    scanf("%d", &n);
    for(int i=1;i<=n;i++){
        int a;
        scanf("%d", &a);
        int l=1,s=a,t=(a*(a+1))-a+1;
        printf("Case #%d\n", i);
```

```
        for(int j=0;j<a;j++){
            int k=2*j,t1=t;
            while(k>0){
                printf("%c", '*');
                k-=1;

            }
            for(int p=0;p<s;p++){
                printf("%d",l);
                l+=1;
                printf("%d",0);
            }
            for(int q=0;q<s;q++){
                printf("%d",t1);
                t1+=1;
                if(q==(s-1)){
                    break;
                }
                printf("%d",0);
            }
            s-=1;
            t-=s;
            printf("\n");

        }
    }
}
```

	Input	Expected	Got	
✓	3 3 4 5 Case #2 1020304017018019020 **50607014015016 ****809012013	Case #1 10203010011012 **4050809 ****607	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013	✓

		******10011 Case #3 10203040502602702802903 0 **607080902202302402 5 ****10011012019020021 ******13014017018 ********15016	******10011 Case #3 10203040502602702802903 0 **607080902202302402 5 ****10011012019020021 ******13014017018 ********15016	

Passed all tests! ✓

Finish review