GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Thursday, 28 November 2024, 11:35 AM
Duration	25 days 5 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  {
4  int T,d,i=0,i1,i2,o;
5  char c;
6  scanf("%d",&T);
7  while(i<T)
8  {
9  scanf("%d",&d);
10 i1=0;
11 while(i1<d)
12 {
13 o=1;
14 i2=0;
15 if(i1%2==0)
16 {
17 o=0;
18 }
19 while(i2<d)
20 {
21 c='B';
22 if(i2%2==o)
23 {
24 c='W';
25 }
26 printf("%c",c);
```

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
int T,d,i=0,i1,i2,o;
char c;
scanf("%d",&T);
while(i<T)
{
scanf("%d",&d);
i1=0;
while(i1<d)
{
o=1;
i2=0;
if(i1%2==0)
{
o=0;
}
while(i2<d)
{
c='B';
if(i2%2==o)
{
c='W';
}
printf("%c",c);
i2++;
}
i1+=1;
printf("\n");
}
i=i+1;
}
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

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,i,i1,i2,o,z;
char c,s;
scanf("%d",&T);
for(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);
}
printf("\n");
}
}
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

Marked out of 7.00

⚑ Flag question

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

If N= 3

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

10203040502602702802903 0

**6070809022023024025

****10011012019020021

10203010011012

**4050809

****607

Case #2

1020304017018019020

**50607014015016

****809012013

******10011

Case #3

102030405026027028029030

**6070809022023024025

****10011012019020021

******13014017018

********15016

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
int n,v,p3,c,in,i,i1,i2,t,ti;
scanf("%d",&t);
for(ti=0;ti<t;ti++)
{
v=0;
scanf("%d",&n);
printf("Case #%d\n",ti+1);
for(i=0;i<n;i++)
{
c=0;
if(i>0)
{
for(i1=0;i1<i;i1++)printf("**");
}
for(i1=i;i1<n;i1++)
{
if(i>0)c++;
printf("%d0",++v);
}
if(i==0)
{
p3=v+(v*(v-1))+1;
in=p3;
}
in=in-c;
p3=in;
for(i2=i;i2<n;i2++)
{
printf("%d",p3++);
if(i2!=n-1) printf("0");
}
printf("\n");
}
}
}
```

	Input	Expected	Got
✓	3 3 4 5	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 102030405026027028029030 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	Case #1 102030100110 **4050809 ****607 Case #2 102030401701 **5060701401 ****80901201 ******10011 Case #3 102030405026 **6070809022 ****10011012 ******13014C ********1501

Passed all tests! ✓

Finish review