GE23131-Programming Using C-2024

Quiz navigation

| 1 | 2 | 3 |

Show one page at a time

[Finish review]

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 20 December 2024, 1:41 AM
Duration	3 days 15 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
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);
27 i2++;
28 }
29 i1+=1;
30 printf("\n");
31 }
32 i=i+1;
33 }
34 }
35
```

	Input	Expected	Got	
✓	2 3 5	WBW BWB WBW WBWBW BWBWB WBWBW	WBW BWB WBW WBWBW BWBWB WBWBW	✓

	BWBWB WBWBW	BWBWB WBWBW

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 %)

```
1  #include<stdio.h>
2  int main()
```

```c
2  int main()
3  {
4      int T,d,i,il,i2,o,z;
5      char c,s;
6      scanf("%d",&T);
7      for(i=0;i<T;i++)
8      {
9          scanf("%d %c",&d,&s);
10         for(il=0;il<d;il++)
11         {
12             z=(s=='W') ? 0:1;
13             o=(il%2==z) ? 0:1;
14             for(i2=0;i2<d;i2++)
15             {
16                 c=(i2%2==o) ? 'W' : 'B';
17                 printf("%c",c);
18             }
19             printf("\n");
20         }
21     }
22     return 0;
23 }
24
```

	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

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

102030405026027028029030

**6070809022023024025

****10011012019020021

******13014017018

********15016

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n,v,p3,c,in,i,il,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(il=0;il<i;il++) printf("**");
            }
            for(il=i;il<n;il++){
                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	Case #1	Case #1	✓
	3	10203010011012	10203010011012	
	4	**4050809	**4050809	
	5	****607	****607	
		Case #2	Case #2	
		1020304017018019020	1020304017018019020	
		**50607014015016	**50607014015016	
		****809012013	****809012013	
		******10011	******10011	
		Case #3	Case #3	
		102030405026027028029030	102030405026027028029030	
		**60708090022023024025	**60708090022023024025	
		****10011012019020021	****10011012019020021	
		******13014017018	******13014017018	
		********15016	********15016	

Passed all tests! ✓

Finish review