

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	Monday, 23 December 2024, 2:49 PM
Duration	2 hours 43 mins

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

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);
27                 i2++;
28             }
29             i1+=1;
30             printf("\n");
31         }
32         i=i+1;
33     }
34 }
35

```

	Input	Expected	Got	
--	-------	----------	-----	--

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

BW

BWB

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int T,d,i,i1,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(i1=0;i1<d;i1++)
11        {
12            z=(s=='W') ? 0:1;
13            o=(i1%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 }
```

	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 :

****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

Case #2

1020304017018019020

**50607014015016

****809012013

*****10011

Case #3

102030405026027028029030

**6070809022023024025

****10011012019020021

*****13014017018

*****15016

Answer: (penalty regime: 0 %)

```

1  #include<stdio.h>
2  int main()
3  {
4      int n,v,p3,c,in,i,i1,i2;
5      scanf("%d",&t);
6      for(ti=0;ti<t;ti++)
7      {
8          v=0;
9          scanf("%d",&n);
10         printf("Case #%d\n",ti);
11         for(i=0;i<n;i++)
12         {
13             c=0;
14             if(i>0)
15             {
16                 for(i1=0;i1<i;i1++)
17                     c++;
18                 for(i1=i;i1<n;i1++)
19                     if(i>0) c++;
20                 printf("%d0",c);
21             }
22             if(i==0)
23             {
24                 p3=v+(v*(n-1));
25                 in=p3;
26             }
27             in=in-c;
28             p3=in;
29             for(i2=i;i2<n;i2++)
30             {
31                 printf("%d",i2);
32                 if(i2!=n-1)
33                     printf("\n");
34             }
35         }
36     }
37 }

```

	Input	Expected
✓	3	Case #1
	3	10203010011012
	4	**4050809
	5	****607
		Case #2
		1020304017018019020
		**50607014015016
		****809012013
		*****10011
		Case #3
		102030405026027028029030
		**6070809022023024025
		****10011012019020021
		*****13014017018
		*****15016

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▶

Passed all tests! ✓

Finish review

