GE23131-Programming Using C-2024

HARISH.G.D
240801105

Quiz navigation

| 1 | 2 | 3 |

Show one page at a time

[Finish review]

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Sunday, 17 November 2024, 7:34 AM
Duration	36 days 9 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

Output:

WBW

BWB

WBW

WBWBW

BWBWB

WBWBW

BWBWB

WBWBW

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
void printchessboard(int 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");
        }
    }
}
int main()
{
    int T;
    scanf("%d",&T);
    int sizes[T];
```

```
24        }
25        for(int i=0;i<T;i++)
26  ▾     {
27            printchessboard(sizes[i]);
28        }
29        return 0;
30 }
```

	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

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>
void printchessboard(int size,char startchar)
{
    for(int i=0;i<size;i++)
    {
        for(int j=0;j<size;j++)
        {
            if((i+j)%2==0)
            {
```

```
12                else
13  ▾            {
14                    printf("%C",(startchar=='W')?'B':'W');
15                }
16            }
17            printf("\n");
18        }
19  }
20  int main()
21  ▾ {
22        int T;
23        scanf("%d",&T);
24        while(T--)
25  ▾    {
26            int N;
27            char startchar;
28            scanf("%d %c",&N,&startchar);
29            printchessboard(N,startchar);
30        }
31        return 0;
32  }
```

	Input	Expected	Got	
✓	2 2 W 3 B	WB BW BWB WBW BWB	WB BW BWB WBW BWB	✓

Passed all tests! ✓

Question **3**

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

7.00

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

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

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");
            }
        }
    }
}
```

```
41 │ }
```

	Input	Expected	Got	
✓	3 3 4 5	Case #1 10203010011012 **4050809 ****607 Case #2 10203040170180190 20 **50607014015016 ****809012013 ******10011 Case #3 102030405026027028029030 **6070809022023024025 ****100110120 19020021 ******13014017018 ********15016	Case #1 10203010011012 **4050809 ****607 Case #2 10203040170180190 20 **50607014015016 ****809012013 ******10011 Case #3 102030405026027028029030 **6070809022023024025 ****100110120 19020021 ******13014017018 ********15016	✓

Passed all tests! ✓

Finish review