

GE23131-Programming Using C-2024

Quiz navigation



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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 22 November 2024, 11:16 PM
Duration	30 days 18 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:

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;
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            i2=0;
14            while(i2<d)
15            {
16                c='B';
17                if((i1+i2)%2==0)
18                {
19                    c='W';
20                }
21            }
22            printf("%c",c);
23            i2++;
24        }
```

Answer: (penalty regime: 0 %)

```

1  #include<stdio.h>
2  int main()
3  {
4      int T,d,i=0,i1,i2;
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             i2=0;
14             while(i2<d)
15             {
16                 c='B';
17                 if((i1+i2)%2==0)
18                 {
19                     c='W';
20                 }
21             }
22             printf("%c",c);
23             i2++;
24         }
25         i1++;
26         printf("\n");
27     }
28     i++;
29 }
30 return 0;
31 }

```

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

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()
3 {
4     int v;
5     scanf("%d",&v);
6     while(v!=0)
7     {
8         char a;
9         int x;
10        scanf("%d %c",&x,&a);
11        for(int i=0;i<x;i++)
12        {
13            for(int j=0;j<x;j++)
14            {
15                printf("%c",a);
16                if(a=='W')
17                {
18                    a='B';
19                }
20                else
21                {
22                    a='W';
23                }
24            }
25            if((x%2)==0)
26            {
27                if(a=='W')
28                    a='B';
29                else
30                    a='W';
31            }
32            printf("\n");
33        }
34        v--;
35    }
36 }
```

```
9      int x;
10     scanf("%d %c", &x, &a);
11     for(int i=0; i<x; i++)
12     {
13         for(int j=0; j<x; j++)
14         {
15             printf("%c", a);
16             if(a=='W')
17             {
18                 a='B';
19             }
20             else
21             {
22                 a='W';
23             }
24         }
25         if((x%2)==0)
26         {
27             if(a=='W')
28                 a='B';
29             else
30                 a='W';
31         }
32         printf("\n");
33     }
34     v--;
35 }
36 }
```

	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
****10011012010030031

****10011012019020021

*****13014017018

*****15016

Answer: (penalty regime: 0 %)

```

1  #include<stdio,h>
2  int main()
3  {
4      int v,c=0;
5      scanf("%d",&v);
6      while(v!=0){
7          c++;
8          int a;
9          scanf("%d",&a);
10         int s1=10,s2=(a*(a*10))+10;
11         printf("Case #%d\n",c);
12         for (int i=0;i<a;i++){
13             for(int j=0;j<i;j++){
14                 printf("**");
15             }
16             for(int j=0;j<a-i;j++){
17                 printf("%d",s1);
18                 s1+=10;
19             }
20             for(int j=0;j<a-i;j++){
21                 if((j+1)==(a-i)){
22                     printf("%d",((s2+(j*10))/10));
23                 }
24                 else{
25                     printf("%d",((s2+(j*10))));
26                 }
27             }
28             s2=(a-i)*10;
29             s2+=10;
30             printf("\n");
31         }
32         v--;
33     }
34 }
```

```
18         s1+=10;
19     }
20     for(int j=0;j<a-i;j++){
21         if((j+1)==(a-i)){
22             printf("%d",((s2+(j*10))/10));
23         }
24         else{
25             printf("%d",s2+(j*10));
26         }
27     }
28     s2=(a-i)*10;
29     s2+=10;
30     printf("\n");
31 }
32 v--;
33 }
34 }
```

	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	
		**6070809022023024025	**6070809022023024025	
		****10011012019020021	****10011012019020021	
		*****13014017018	*****13014017018	
		*****15016	*****15016	

Passed all tests! ✓