

GE23131-Programming Using C-2024

Quiz navigation



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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 29 November 2024, 1:11 PM
Duration	24 days 4 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:

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);
27                i2++;
28            }
29            i1+=1;
30            printf("\n");
31        }
32        i=i+1;
33    }
34    return 0;
35 }
```

```
21 {
22     c='B';
23     if(i2%2==0)
24     {
25         c='W';
26     }
27     printf("%c",c);
28     i2++;
29 }
30 i1+=1;
31 printf("\n");
32 }
33 i=i+1;
34 }
35 return 0;
36 }
```

	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

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 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	

Question

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

$2 \leq N \leq 100$

Input Format

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

$2 \leq N \leq 100$

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

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 %)

Answer: (penalty regime: 0 %)

```

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

```

```
4   int n,v,p3,c,in,i,i1,i2,t,ti;
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+1);
11      for(i=0;i<n;i++)
12      {
13          c=0;
14          if(i>0)
15          {
16              for(i1=0;i1<i;i1++) printf("***");
17          }
18          for(i1=i;i1<n;i1++)
19          {
20              if(i>0) c++;
21              printf("%d0",++v);
22          }
23          if(i==0)
24          {
25              p3=v+(v*(v-1))+1;
26              in=p3;
27          }
28          in=in-c;
29          p3=in;
30          for(i2=i;i2<n;i2++)
31          {
32              printf("%d",p3++);
33              if(i2!=n-1) printf("0");
34          }
35          printf("\n");
36      }
37  }
38  return 0;
39 }
```

```
35         printf("\n");
36     }
37 }
38 return 0;
39 }
```

	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! ✓