

GE23131-Programming Using C-2024

Quiz navigation



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[Finish review](#)**Status** Finished**Started** Monday, 23 December 2024, 5:33 PM**Completed** Saturday, 14 December 2024, 1:16 PM**Duration** 9 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 different values for size of the chessboard

Output format:

Print a chessboard of dimensions size * size. Print a W for white spaces and B for black spaces.

The first line contains the number of inputs I .

The lines after that contain different values for size of the chessboard

Output format:

Print a chessboard of dimensions $\text{size} \times \text{size}$. Print a `W` for white spaces and `B` for black spaces.

Input:

2

3

5

Output:

WBW

BWB

WBW

WBWBW

BWBWB

WBWBW
BWBWB
WBWBW
BWBWB
WBWBW

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int T,d,i=0,ii,iz,0;
5     char c;
6     scanf("%d",&T);
7     while (i < T)
8     {
9         scanf("%d",&d);
10        ii=0;
11        while(ii < d)
12        {
13            if (c=='1')
14                ii+=1;
15            if (ii>2)
16            {
17                o=0;
18            }
19            while(ii>0)
20            {
21                if (o>0)
22                    o-=1;
23                else
24                    ii-=1;
25            }
26        }
27    }
28 }
```

```
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;
```

```
32     i=1+1;
33 }
34 return 0;
35 }
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

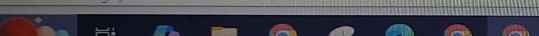
Correct

Marked out of
5.00[Flag question](#)

Let's print a chessboard!

Write a program that takes input:

Type here to search



28°C Haze



ENG

15:06

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
```

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 }
```

```
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 }
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

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

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

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

*****13014017018

*****15016

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         v=0;
8         scanf("%d",&n);
9         printf("Case #%d\n",ti+1);
10        for(i=0;i<n;i++){
11            c=0;
12            if(i>0){
13                for(i1=0;i1<i;i1++)
14                    printf("*");
15            }
16            for(i1=i;i1<n;i1++){
17                if(i>0)c++;
18                printf("%d",++v);
19            }
20            if(i==0){
21                p3=v*(v-1)+1;
22                in=p3;
23            }
24            in=in-c;
25            p3=in;
26            for(i2=i;i2<n;i2++){
```



```

14     printf("**");
15 }
16 v
17
18
19
20 v
21 if(i==0){
22     p3=v+(v*(v-1))+1;
23     in=p3;
24     in=in-c;
25     p3=in;
26 v
27     for(i2=i;i2<n;i2++){
28         printf("%d",p3++);
29         if(i2!=n-1)
30             printf("0");
31     }printf("\n");
32 }
33 }
34

```

	Input	Expected	Got
✓	3	Case #1 10203010011012	Case #1 10203010011012
	3	**4050809	**4050809
	4	***607	***607
	5	Case #2	Case #?

```
29         printf("0");
30     }
31     }
32 }
```

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

Passed all tests! ✓