

# GE23131-Programming Using C-2024

Quiz navigation



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|-----------|-----------------------------------|
| Status    | Finished                          |
| Started   | Monday, 23 December 2024, 5:33 PM |
| Completed | Friday, 6 December 2024, 10:17 PM |
| Duration  | 16 days 19 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 s

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)
```

REC-CIS

```

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   |  |
|--|-------|----------|-------|--|
|  | 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

BW

BWB

WBW

BWB

Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2

```

REC-CIS

```

5   int l,d,i,i1,i2,o,z;
6   char c,s;
7   scanf("%d", &T);
8   for(i=0;i<T;i++)
9   {
10      scanf("%d %c", &d, &s);
11      for(i1=0;i1<d;i1++)
12      {
13          z=(s=='W') ? 0:1;
14          o=(i1%2==z) ? 0:1;
15          for(i2=0;i2<d;i2++)
16          {
17              c=(i2%2==o) ? 'W' : 'B';
18              printf("%c",c);
19          }
20          printf("\n");
21      }
22  }
23  return 0;
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

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 &lt;= N &lt;= 100

Input Format

First line contains T, the number of test cases

Each test case contains a single integer N

Output

REC-CIS

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

\*\*\*\*\*13014017018

\*\*\*\*\*15016

Answer: (penalty regime: 0 %)

```

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

```

REC-CIS

|  | 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!