# REC-CIS Maanisha E - 240901055

GE23131-Programming Using C-2024

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| --- | --- |
| **Status** | Finished |
| **Started** | Monday, 23 December 2024, 5:33 PM |
| **Completed** | Thursday, 5 December 2024, 9:49 AM |
| **Duration** | 18 days 7 hours |

Write a program that prints a simple chessboard.



Question **1**

Correct

Marked out of 3.00

Flag question

Quiz navigation

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Finish review

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

# REC-CIS

5

Output:

# WBW BWB WBW WBWBW BWBWB WBWBW BWBWB WBWBW

**Answer:** (penalty regime: 0 %)

1

#include<stdio.h>

2



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int main()

{

int T,d,i=0,i1,i2,o; char c;

scanf("%d",&T); while(i<T)

{

scanf("%d",&d); i1=0;

while(i1<d)

{

o=1; i2=0;

if(i1%2==0)

{

o=0;

}

while(i2<d)

{

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21 c='B';

22 if(i2%2==o)

23 ▼ {



Passed all tests!

Let’s print a chessboard!

Write a program that takes input:

|  |  |  |
| --- | --- | --- |
| 24 |  | c='W'; |
| 25 |  | } |
| 26 |  | printf("%c",c); |
| 27 |  | i2++; |
| 28 |  | } |
| 29 |  | i1+=1; |
| 30 |  | printf("\n"); |
| 31 |  | } |
| 32 |  | i=i+1; |
| 33 |  | } |
| 34 | } |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Input** | **Expected** | **Got** |  |
|  | 2  3  5 | WBW BWB WBW WBWBW BWBWB WBWBW BWBWB WBWBW | WBW BWB WBW WBWBW BWBWB WBWBW BWBWB WBWBW |  |



Question **2**

Correct

Marked out of 5.00

Flag question

REC-CIS

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 %)

#include<stdio.h>

void printchessboard(int size,char startchar)

{

2

3 ▼

4

1

for(int i=0;i<size;i++)

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5 ▼ {

6 for(int j=0;j<size;j++)

7 {

▼

8 if((i+j)%2==0)

9 ▼ {

10

11 }

printf("%c",startchar);

12

13 ▼

14

15

16

else

{

}

}

printf("%c",(startchar=='W')?'B':'W');

17

18

19 }

printf("\n");

}

20

21 ▼

22

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Passed all tests!

int main()

{

int T;

scanf("%d",&T); while(T--)

{

int N;

char startchar;

scanf("%d %c",&N,&startchar); printchessboard(N,startchar);

}

return 0;

}



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Input** | **Expected** | **Got** |  |
|  | 2  2 W  3 B | WB BW BWB WBW BWB | WB BW BWB WBW BWB |  |

# REC-CIS



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

# REC-CIS

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

REC-CIS

102030405026027028029030

\*\*6070809022023024025

\*\*\*\*10011012019020021

\*\*\*\*\*\*13014017018

\*\*\*\*\*\*\*\*15016

**Answer:** (penalty regime: 0 %)

1

#include<stdio.h>

2

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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++)



# REC-CIS

33 ▼ {

34 printf("%d",p3++);

35 if(i2!=n-1)



|  |  |  |  |
| --- | --- | --- | --- |
| 36 |  |  | printf("0"); |
| 37 |  |  | } |
| 38 |  |  | printf("\n"); |
| 39 |  |  | } |
| 40 |  | } |  |
| 41 | } |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **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!

Finish review