## Reg No: 240701046 Question 1 Correct Marked out of 3.00 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:

WEEK-05

```
spaces.
Input:
2
3
5
Output:
```

**WBW** 

**BWB** 

**WBW** 

**WBWBW** 

**BWBWB** 

**WBWBW** 

**BWBWB** 

**WBWBW** 

1

3 4

5

6

8

9 10

11 ▼ 12

13

14

16

17 18

19 20 🔻

21

22 23 🔻

24

25

26

27 28

29

30 31 32

33 34

35 36 37

Input

Passed all tests! <

Let's print a chessboard!

Write a program that takes input:

The first line contains T, the number of test cases

Print the chessboard as per the given examples

Each test case contains an integer N and also the starting character of the chessboard

Question 2

Marked out of 5.00

**Output Format** 

Input:

2

2 W

3 B

WB

BW

**BWB** 

**WBW** 

**BWB** 

1

4

5 6

7 ▼

8

9 10 🔻

11

12

13

15

16 17 18

19 20 21

22

23

}

2

2 W

3 B

Passed all tests! <

Question 3

Marked out of 7.00

▼ Flag question

If N=3

then pattern will be:

10203010011012

If N= 4, then pattern will be:

1020304017018019020

\*\*50607014015016

\*\*\*\*809012013

\*\*\*\*\*10011

Constraints

2 <= N <= 100

**Input Format** 

Output

Test Case 1

3

3

4

5

Output

Case #1

\*\*\*\*607

Case #2

\*\*4050809

10203010011012

1020304017018019020

102030405026027028029030

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

int main(){

{

#include<stdio.h>

scanf("%d",&t);

∨=**0**;

for(ti=0;ti<t;ti++)</pre>

scanf("%d",&n);

C=**0**;

for(i=0;i<n;i++){</pre>

if(i>0){

if(i==0){

in=p3;

in=in-c;

printf("\n");

p3=in;

int n,v,p3,c,in,i,i1,i2,t,ti;

printf("Case #%d\n",ti+1);

for(i1=i;i1<n;i1++){</pre>

if(i>0) c++;

printf("%d0",++v);

p3=v+(v\*(v-1))+1;

for(i2=i;i2<n;i2++){</pre>

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

if(i2!=n-1) printf("0");

Got

Case #1

\*\*4050809

\*\*\*\*607

Case #2

Case #3

10203010011012

1020304017018019020

102030405026027028029030

Finish review

\*\*6070809022023024025

\*\*\*\*10011012019020021

\*\*\*\*\*13014017018

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

\*\*50607014015016

\*\*\*\*809012013

\*\*\*\*\*10011

for(i1=0;i1<i;i1++) printf("\*\*");</pre>

\*\*6070809022023024025

\*\*\*\*10011012019020021

\*\*\*\*\*13014017018

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

1 2 ▼

3

4 5

6 ▼

7

8

9

10 • 11

**12** ▼

**15 ▼** 

16

17 18

19 •

20 21

22 23 24

25

27

28 29 30

37 38

39

3

3

4

5

Passed all tests! <

Quiz navigation

Finish review

3

Show one page at a time

}

return 0;

Input | Expected

Case #1

\*\*\*\*607 Case #2

\*\*4050809

10203010011012

1020304017018019020

102030405026027028029030

\*\*6070809022023024025

\*\*\*\*10011012019020021

\*\*\*\*\*13014017018

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

\*\*50607014015016

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\*\*\*\*\*10011

Case #3

26 •

13 14

\*\*50607014015016

\*\*\*\*809012013

\*\*\*\*\*10011

Case #3

First line contains T, the number of test cases

First line print Case #i where i is the test case number

Each test case contains a single integer N

In the subsequent line, print the pattern

\*\*4050809

\*\*\*\*607

Correct

14 ▼

2 🔻 3

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

int main(){

{

#include<stdio.h>

char c,s;

{

return 0;

Input Expected

**WB** 

BW

**BWB** 

**WBW** 

**BWB** 

int T,d,i,i1,i2,o,z;

scanf("%d %c",&d,&s);

z=(s=='W')?0:1;

o=(i1%2==z)?0:1;

for(i2=0;i2<d;i2++)</pre>

c=(i2%2==o)?'W':'B';

printf("%c",c);

printf("\n");

for(i1=0;i1<d;i1++)</pre>

Got

WB

BW

**BWB** 

**WBW** 

**BWB** 

**/** 

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

scanf("%d",&T);

for(i=0;i<T;i++)</pre>

{

Output:

Sample Input / Output

Flag question

Correct

2

3

5

Expected

**WBW** 

**BWB** 

**WBW** 

**WBWBW** 

**BWBWB WBWBW** 

**BWBWB** 

**WBWBW** 

15 ▼

7 🔻

Answer: (penalty regime: 0 %)

2 v int main(){

{

#include<stdio.h>

char c;

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

scanf("%d",&d);

while(i1<d)</pre>

o=1;

{

{

i2=**0**;

if(i1%2==0)

o=**0**;

while(i2<d)</pre>

{

i1+=1;

i=i+1;

return 0;

Got

WBW

BWB

**WBW** 

**WBWBW** 

**BWBWB** 

**WBWBW** 

**BWBWB WBWBW** 

c='B';

i2++;

printf("\n");

if(i2%2==o)

c='W';

printf("%c",c);

scanf("%d",&T);

while (i<T)</pre>

i1=0;

Name: ARAVIND RAJESH

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

```
WEEK-05-02
Question 1
Correct
Marked out of 3.00
The k-digit number N is an Armstrong number if and only if the k-th power of each digit sums
 to N.
 Given a positive integer N, return true if and only if it is an Armstrong number.
 Example 1:
 Input:
 153
 Output:
 true
 Explanation:
 153 is a 3-digit number, and 153 = 1^3 + 5^3 + 3^3.
 Example 2:
 Input:
 123
 Output:
 false
 Explanation:
 123 is a 3-digit number, and 123 != 1^3 + 2^3 + 3^3 = 36.
 Example 3:
```

Input:

1634

Output:

true

Note:

1 <= N <= 10^8

2

4

5

7

9

10 11 12

13

14

1617

18 19

20 21 ▼

2223

24

262728

293031

25 ▼ {

15 ▼ {

8 ▼ {

Answer: (penalty regime: 0 %)

3 v int main(){

int n;

#include<stdio.h>
#include<math.h>

scanf("%d",&n);

int x=0,n2=n;
while(n2!=0)

X++;

int sum=0;

if(n==sum)

return 0;

else

153

123

Question  $\bf 2$ 

Marked out of 5.00

▼ Flag question

1 2 •

3

4

7

8 9 •

10

11121314

15

1617

18

19

20

21

}

Input

32

789

Question **3** 

Marked out of 7.00

output.

3

33

34

33344

Sample Input 1:

Sample Output 1:

Explanation:

Sample Input 2:

Sample Output 2:

Answer: (penalty regime: 0 %)

int main(){

2 🔻

3

4 5

6 **▼** 7

14

15

161718

2223

24

25

26

27

Quiz navigation

Finish review

Show one page at a time

}

Input

Passed all tests! <

34

#include<stdio.h>

while(i<e)</pre>

int n=1,i=0,nt,co=0,e;

while(nt!=0)

co=**0**;

co=1;

break;

nt=nt/10;

**if**(co==**0**)

printf("%d",--n);

n++;

**Expected** 

33344

Got

33344

Finish review

return 0;

1++;

if(nt%10!=3 && nt%10!=4)

scanf("%d",&e);

nt=n;

Correct

Passed all tests! <

5 ▼ 6

Correct

Passed all tests! <

int n3=n,n4;

while (n3!=0)

n2=n2/10;

n4=n3%10;

n3=n3/10;

sum=sum+pow(n4,x);

printf("true");

printf("false");

Input | Expected | Got

true

false

Input 2 789 Sample Output 2 66066

#include<stdio.h>

int rn,n,nt=0,i=0;

while(n!=0)

n=nt+rn;

printf("%d", rn);

1++;

return 0;

Expected

55

66066

lucky as they have other numbers in it.

rn=rn\*10+n%10;

n=n/10;

while(rn!=nt || i==1);

Got

55

66066

A number is considered lucky if it contains either 3 or 4 or 3 and 4 both in it. Write a program

to print the nth lucky number. Example, 1st lucky number is 3, and 2nd lucky number is 4 and

3rd lucky number is 33 and 4th lucky number is 34 and so on. Note that 13, 40 etc., are not

The program should accept a number 'n' as input and display the nth lucky number as

Here the lucky numbers are 3, 4, 33, 34., and the 3rd lucky number is 33.

scanf("%d",&n);

nt=n;

rn=**0**;

{

Answer: (penalty regime: 0 %)

int main(){

do{

true

false 🗸

**/** 

Take a number, reverse it and add it to the original number until the obtained number is a

palindrome. Constraints 1<=num<=999999999 Sample Input 1 32 Sample Output 1 55 Sample