## Reg No: 240701133 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: 2 3 5

WEEK-05

Name: A.DHIYANESHVARAN

Output: **WBW BWB WBW WBWBW BWBWB WBWBW BWBWB WBWBW** 

Answer: (penalty regime: 0 %) 1 #include<stdio.h> 2 v int main(){ int T,d,i=0,i1,i2,o; 3 4 char c; 5 scanf("%d",&T); 6 while (i<T)</pre>

7 🔻 { scanf("%d",&d); 8 i1=0; 9 10 while(i1<d)</pre> 11 ▼ 12 o=1;13 i2=**0**; 14 if(i1%2==0) 15 ▼ { 16 o=**0**; 17 18 while(i2<d)</pre> 19 20 🔻 {

21 c='B'; if(i2%2==o) 22 23 🔻 { 24 c='W'; 25 printf("%c",c); 26 i2++; 27 28 i1+=1;29 printf("\n"); 30 31 32 i=i+1;33 34 35 return 0; 36 37 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 %) #include<stdio.h> 1 int main(){ 2 🔻 3 int T,d,i,i1,i2,o,z; char c,s; 4 scanf("%d",&T); 5 6 for(i=0;i<T;i++)</pre> 7 ▼ { scanf("%d %c",&d,&s); 8 for(i1=0;i1<d;i1++)</pre> 9 10 🔻 { z=(s=='W')?0:1; 11 o=(i1%2==z)?0:1;12 for(i2=0;i2<d;i2++)</pre> 13 { 14 ▼ c=(i2%2==o)?'W':'B'; 15 printf("%c",c); 16 17 18 printf("\n"); 19 20 21 return 0; 22 } 23

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=3then 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 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 102030405026027028029030 \*\*6070809022023024025 \*\*\*\*10011012019020021 \*\*\*\*\*13014017018 \*\*\*\*\*\*15016

**Answer:** (penalty regime: 0 %) #include<stdio.h> 1 2 ▼ int main(){ 3 int n,v,p3,c,in,i,i1,i2,t,ti; scanf("%d",&t); 4 5 for(ti=0;ti<t;ti++)</pre> 6 ▼ { 7 ∨=**0**; scanf("%d",&n); 8 printf("Case #%d\n",ti+1); 9 for(i=0;i<n;i++){</pre> 10 • 11 C=0; if(i>0){ **12** ▼ for(i1=0;i1<i;i1++) printf("\*\*");</pre> 13 14 for(i1=i;i1<n;i1++){</pre> **15** ▼ if(i>0) c++; 16 printf("%d0",++v); 17 18 if(i==0){ 19 • p3=v+(v\*(v-1))+1;20 21 in=p3; 22 23 24 in=in-c; 25 p3=in;for(i2=i;i2<n;i2++){</pre> 26 • printf("%d",p3++); 27 if(i2!=n-1) printf("0"); 28 29

30 printf("\n"); 31 32 33 34 35 36 } 37 38 return 0; 39 Input | Expected Got Case #1 3 Case #1 3 10203010011012 10203010011012 \*\*4050809 4 \*\*4050809 5 \*\*\*\*607 \*\*\*\*607 Case #2 Case #2 1020304017018019020 1020304017018019020

\*\*50607014015016

102030405026027028029030

Finish review

\*\*6070809022023024025

\*\*\*\*10011012019020021

\*\*\*\*\*13014017018

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

\*\*\*\*809012013

\*\*\*\*\*10011

Case #3

\*\*50607014015016

102030405026027028029030

\*\*6070809022023024025

\*\*\*\*10011012019020021

\*\*\*\*\*13014017018

\*\*\*\*\*15016

\*\*\*\*809012013

\*\*\*\*\*10011

Case #3

Passed all tests! <

Quiz navigation

Finish review

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```
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