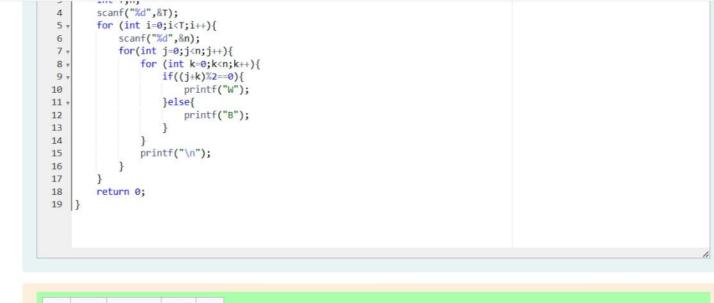
Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Monday, 25 November 2024, 2:56 PM
Duration	28 days 2 hours
Question 1 Correct Marked out of 3.00 F Flag question	Write a program that prints a simple chessboard. Input format: The first line contains the number of inputs T. The lines 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

```
5
Output:
WBW
BWB
WBW
WBWBW
BWBWB
WBWBW
BWBWB
WBWBW
Answer: (penalty regime: 0 %)
     #include <stdio.h>
   2 v int main(){
          int T,n;
          scanf("%d",&T);
          for (int i=0;i<T;i++){
              scanf("%d",&n);
   6
              for(int j=0;j<n;j++){</pre>
                  for (int k=0; k<n; k++){
   8 +
                      if((j+k)\%2==0){
   9 +
                          printf("W");
  10
  11 +
                      }else{
```





Passed all tests! <

Question 2 Correct	Let's print a chessboard!
Marked out of 5.00 Flag question	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>
    2 - int main(){
           int T;
           int n;
    4
    5
           char m;
           scanf("%d",&T);
    6
    7 ,
           for(int i=0;i<T;i++){</pre>
    8
                scanf("%d",&n);
                scanf(" %c",&m);
    9
                for(int j=0;j<n;j++){</pre>
  10
  11 +
                    for(int k=0;k<n;k++){
  12 +
                        if((j+k)\%2==0){
                            printf("%c",m);
  13
  14 +
                        }else{
                            if(m=='W'){
  15 v
  16
                                 printf("B");
  17 ,
                            }else{
  18
                                 printf("W");
  19
  20
  21
                    printf("\n");
  22
  23
  24
  25
           return 0;
  26
```

BW





Question 3 Correct	Decode the logic and print the Pattern that corresponds to given input.
Marked out of 7.00	If N= 3
F Flag question	
	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 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

```
1020304017018019020
**50607014015016
****809012013
*****10011
Case #3
102030405026027028029030
**6070809022023024025
****10011012019020021
*****13014017018
******15016
Answer: (penalty regime: 0 %)
      #include <stdio.h>
   2 - int main(){
           int n,v,p3,c,in,i,i1,i2,t,ti;
           scanf("%d",&t);
    4
           for(ti=0;ti<t;ti++){
   5 +
    6
               V=0;
               scanf("%d",&n);
               printf("Case #%d\n",ti+1);
    8
               for (i=0;i<n;i++){
   9 ,
  10
                   c=0;
  11 .
                   if(i>0){
  12
                       for(i1=0;i1<i;i1++) printf("**");
  13
               for (i1=i;i1<n;i1++){
  14 .
  15
                   if(i>0) c++;
                   printf("%d0",++v);
  16
  17
               if (i=0){
  18 +
```

```
20
                 in=p3;
21
22
             in-=c;
23
             p3=in;
24 +
             for(i2=i;i2<n;i2++){
25
                 printf("%d",p3++);
                 if(i2!=n-1) printf("0");
26
27
             }printf("\n");
28
29
30
     Input Expected
                                     Got
~
            Case #1
                                     Case #1
                                                               1
                                     10203010011012
            10203010011012
            **4050809
                                     **4050809
            ****607
                                      ****607
            Case #2
                                     Case #2
            1020304017018019020
                                     1020304017018019020
                                      **50607014015016
            **50607014015016
            ****809012013
                                      ****809012013
                                     *****10011
            ******10011
                                     Case #3
            Case #3
            102030405026027028029030
                                     102030405026027028029030
```

18 +

19

if (i==0){

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

6070809022023024025 **6070809022023024025 **10011012019020021 ****10011012019020021 *****13014017018 *****13014017018 ******15016 *******15016 Passed all tests! <

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 22 November 2024, 2:23 PM
Duration	31 days 3 hours
Question 1 Correct	The k-digit number N is an Armstrong number if and only if the k-th power of each digit sums to N.
Marked out of 3.00 Flag question	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
Answer: (penalty regime: 0 %)
      #include <stdio.h>
       #include <math.h>
   3 v int main(){
           int n, temp, digit, sum=0, s=0;
    4
    5
           scanf("%d",&n);
    6
           temp=n;
   7 .
           while(temp>0){
    8
               temp=temp/10;
   9
               S++;
  10
  11
           temp=n;
  12 +
           while(temp!=0){
               digit=temp%10;
  13
  14
               sum=sum+pow(digit,s);
  15
               temp=temp/10;
  16
           if (sum==n){
  17 v
  18
               printf("true");
  19
           }else{
  20
               printf("false");
  21
  22
           return 0:
```

Answer: (penalty regime: 0 %)

```
#include <stdio.h>
   #include <math.h>
3 + int main(){
        int n, temp, digit, sum=0, s=0;
4
        scanf("%d",&n);
 5
        temp=n;
6
        while(temp>0){
7 +
            temp=temp/10;
 8
9
            S++;
10
11
        temp=n;
12 +
        while(temp!=0){
13
            digit=temp%10;
14
            sum=sum+pow(digit,s);
15
            temp=temp/10;
16
17 +
        if (sum==n){
            printf("true");
18
19 +
        }else{
            printf("false");
20
21
22
        return 0;
23
```

	Input	Expected	Got	
~	153	true	true	~
~	123	false	false	~

Passed all tests! <

Question 2
Correct

Marked out of 5.00

F Flag question

Answer: (penalty regime: 0 %)

```
#include <stdio.h>
 2 . int main(){
        int n,reversed,sum,temp,digit;
        scanf("%d",&n);
 4
 5 +
        while(1){
            reversed=0;
 6
 7
            temp=n;
 8 +
            while(temp>0){
                digit=temp%10;
 9
                reversed=reversed*10+digit;
10
                temp/=10;
11
12
        sum=n+reversed;
13
        temp=sum;
14
        int reversed sum=0;
15
        while (temp>0){
16 +
            digit=temp%10;
17
            reversed sum=reversed sum*10+digit;
18
            temp/=10:
19
20
        if(sum==reversed sum){
21 .
            printf("%d", sum);
22
23
            break:
24
25
        n=sum;
26
27
        return 0;
28
```

```
2 + | int main(){
        int n,reversed,sum,temp,digit;
        scanf("%d",&n);
 4
        while(1){
 5 .
             reversed=0;
             temp=n;
             while(temp>0){
8 +
                 digit=temp%10;
 9
                 reversed=reversed*10+digit;
10
                temp/=10;
11
12
13
        sum=n+reversed;
14
        temp=sum;
15
        int reversed sum=0;
        while (temp>0){
16 +
17
             digit=temp%10;
             reversed sum=reversed sum*10+digit;
18
19
             temp/=10;
20
21 +
        if(sum==reversed sum){
            printf("%d", sum);
22
23
             break;
24
25
        n=sum;
26
27
        return 0;
28
```

	Input	Expected	Got	
~	32	55	55	~
,	789	66066	66066	_

Passed all tests! <

Question 3 Correct Marked out of 7.00	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 lucky as they have other numbers in it.
F Flag question	The program should accept a number 'n' as input and display the nth lucky number as output.
	Sample Input 1:
	3
	Sample Output 1:
	33
	Explanation:
	Here the lucky numbers are 3, 4, 33, 34., and the 3rd lucky number is 33.
	Sample Input 2:
	34
	Sample Output 2:

Answer: (penalty regime: 0 %)

```
#include <stdio.h>
 2 * int main(){
        int n;
        scanf("%d",&n);
 4
        int count=0;
        int num=3;
 6
 7 .
        while(count<n){
            int a=0;
 8
            int temp=num;
 9
            int b=0;
10
11 v
            while(temp>0){
12
                int digit=temp%10;
13 v
                if(digit==3||digit==4){
14
                    a=1;
15 v
                }else{
16
                    b=1;
                    break;
17
18
                temp/=10;
19
20
21 +
            if(a&&!b){
22
                count++;
23 +
                if(count==n){
                    printf("%d", num);
24
25
26
```

```
scanf("%d",&n);
 4
 5
        int count=0;
        int num=3;
 6
7 .
        while(count<n){
            int a=0;
 8
 9
            int temp=num;
10
            int b=0;
            while(temp>0){
11 +
                int digit=temp%10;
12
13 v
                 if(digit=-3||digit=-4){
14
                     a=1;
                 }else{
15 +
16
                     b=1;
17
                     break;
18
19
                 temp/=10;
20
21 +
            if(a&&!b){
                 count++;
22
23 +
                if(count==n){
                     printf("%d", num);
24
25
26
27
            num++;
28
29
        return 0;
30
```

	Input	Expected	Got	
--	-------	----------	-----	--

Passed all tests! ✓