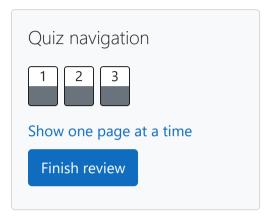
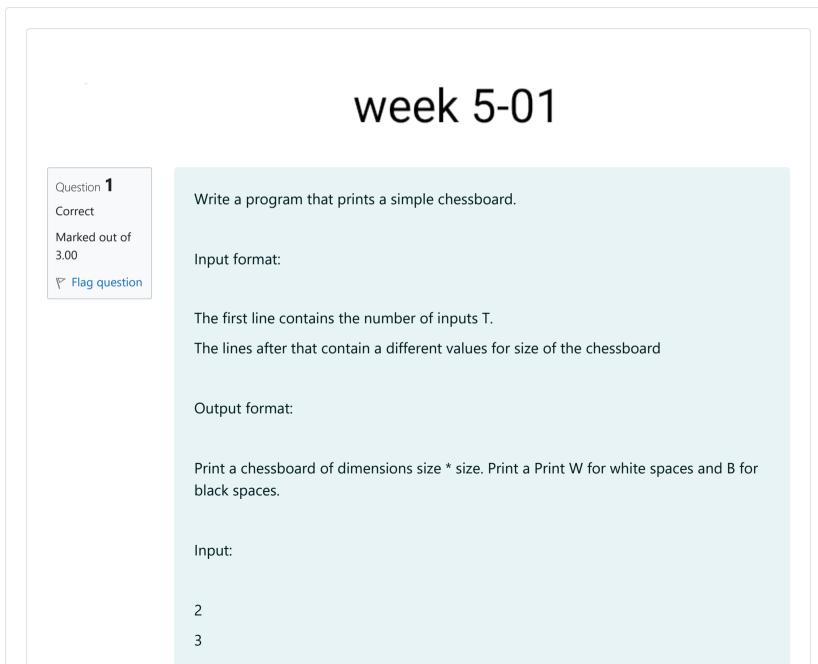
## GE23131-Programming Using C-2024





WBW **BWB** WBW **WBWBW BWBWB WBWBW BWBWB WBWBW Answer:** (penalty regime: 0 %) 1 #include<stdio.h> 2 int main() 3 🔻 int x,s; scanf("%d",&x); while(x--) 7 🔻 scanf("%d",&s); 8 9 for(int i=0;i<s;i++)</pre> 10 1 11 for(int j=0;j<s;j++)</pre> 12 🔻 13 if((i+j)%2==0) 14 🔻 printf("W"); 15 16 else 17 18 🔻 printf("B"); 19 20

Output:

```
24 | }
25 | return 0;
26 |}
```

	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** 

```
Input:
2
2 W
3 B
Output:
WB
BW
BWB
WBW
BWB
Answer: (penalty regime: 0 %)
   1 #include<stdio.h>
      int main()
    2
    3 ₹ {
           int a,b;
           char ch;
           scanf("%d",&a);
           while(a--)
    8 🔻
               scanf("%d %c",&b,&ch);
    9
               for(int i=0;i<b;i++)</pre>
  10
   11 🔻
  12
                   for(int j=0;j<b;j++)</pre>
```

Sample Input / Output

```
if((i+j)%2==0)
16
17 🔻
                              printf("W");
18
19
                          else
20
21 🔻
22
                              printf("B");
23
24
25
                     else
26 🔻
                          if((i+j)%2==0)
27
28 🔻
29
                              printf("B");
30
                          else
31
32 🔻
                              printf("W");
33
34
35
36
                 printf("\n");
37
38
39
40
        return 0;
41
```

	Input	Expected	Got	
<b>~</b>	2	WB	WB	<b>~</b>
	2 W	BW	BW	
	3 B	BWB	BWB	
		WBW	WBW	
		BWB	BWB	

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

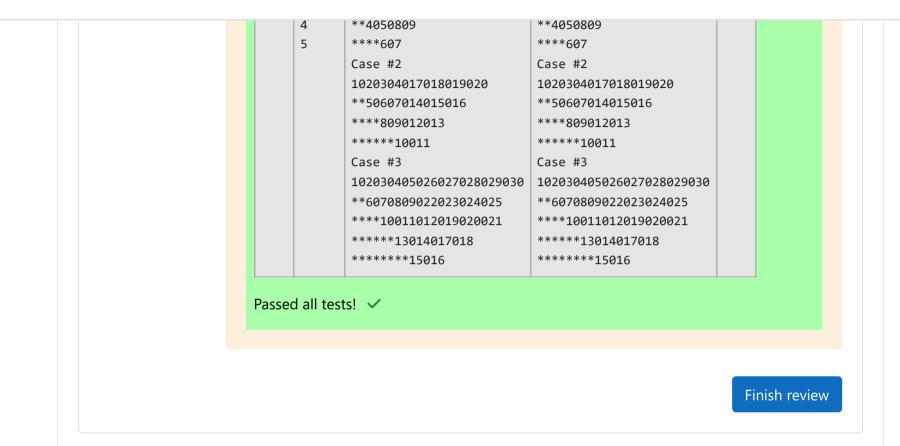
Output First line print Case #i where i is the test case number In the subsequent line, print the pattern Test Case 1 3 3 5 Output Case #1 10203010011012 \*\*4050809 \*\*\*\*607 Case #2 1020304017018019020 \*\*50607014015016 \*\*\*\*809012013 \*\*\*\*\*10011

```
**6070809022023024025
****10011012019020021
*****13014017018
******15016
Answer: (penalty regime: 0 %)
       #include<stdio.h>
       int main()
    2
    3 ▼
            int p,q,r,s,t=1,u,ans,v;
            scanf("%d",&p);
            while(t<=p)</pre>
    7 🔻
                 scanf("%d",&q);
    8
                 printf("Case #%d \n",t);
    9
   10
                 s=1;
   11
                 u=1;
                 v=<mark>0</mark>;
   12
   13
                 while(s<=q)</pre>
   14 🔻
   15
                     r=1;
   16
                     ans=(q*q);
   17
                     ans=ans-v;
   18
                     while(r<=2*q)</pre>
   19 🔻
   20
                          if(r<=q)
   21 1
   22
                               if(r<s)</pre>
   23 🔻
                               printf("**");
   24
   25
   26
                          else if(r<=q)</pre>
   27 1
                               printf("%d",u*10);
   28
   29
                               u++;
   30
```

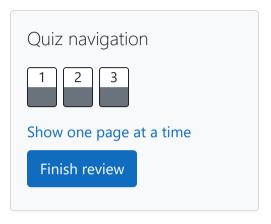
```
34
                     if((r+s)==(2*q)+1)
35 🔻
                         printf("%d",(ans+s));
36
37
                         ans++;
38
                         ۷++;
39
                     else if(r+s <= (2*q)+1)
40
41 🔻
                         printf("%d",(ans+s)*10);
42
43
                         ans++;
44
                         v++;
45
46
47
                r++;
48
49
            s++;
            printf("\n");
50
51
        t++;
52
```

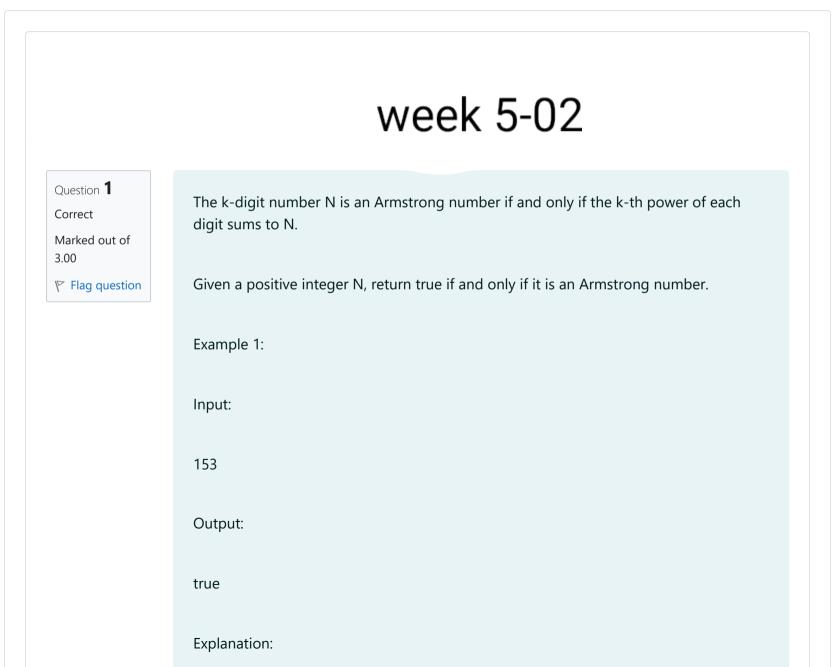
Input Expected

Got



## GE23131-Programming Using C-2024





	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	

```
1 <= N <= 10^8
```

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

```
#include<stdio.h>
   #include<math.h>
 2
    int main()
 4 ▼ {
        int a,b=0,sum=0,rem;
 5
        scanf("%d",&a);
        int temp1=a,temp2=a;
        while(temp1!=0)
 8
 9 1
            temp1/=10;
10
11
            b++;
12
13
        while(temp2!=0)
14 🔻
            rem = temp2\%10;
15
            sum+=pow(rem,b);
16
17
            temp2/=10;
18
19
        if(sum==a)
20 🔻
            printf("true");
21
22
        else
23
24 🔻
            printf("false");
25
26
        return 0;
27
28
29
30
31
```

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

Passed all tests! <

Question **2** 

Correct

Marked out of 5.00

Flag question

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

```
#include<stdio.h>
 2
    int main()
 3 ▼
         long long int sum,num,revnum,tempnum,tempsum;
 4
         scanf("%11d",&num);
 5
         while(1)
 6
 7 1
             revnum=<mark>0</mark>;
 8
             tempnum=num;
 9
             while(num)
10
11
12
                  revnum=revnum*10+(num%10);
13
                  num=num/10;
14
             sum=tempnum+revnum;
15
             tempsum=sum;
16
17
             revnum=<mark>0</mark>;
             while(sum)
18
19 1
                  revnum=revnum*10+(sum%10);
20
                  sum=sum/10;
21
22
23
             if(tempsum==revnum)
```

```
27 | num=tempsum;

28 | }

29 | printf("%11d",tempsum);

30 | return 0;

31 |}
```

	Input	Expected	Got	
<b>~</b>	32	55	55	~
<b>~</b>	789	66066	66066	~

Passed all tests! <

Question **3** 

Correct

Marked out of 7.00

Flag question

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.

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

Sample Input 1:

3

Explanation: Here the lucky numbers are 3, 4, 33, 34., and the 3rd lucky number is 33. Sample Input 2: 34 Sample Output 2: 33344 **Answer:** (penalty regime: 0 %) 1 #include<stdio.h> 2 #include<math.h> int main() 3 4 \* long int i,j; 5 int rem,n,cnt=0,fg; scanf("%d",&n); for(i=1;cnt<=n;i++)</pre> 9 🔻

33

```
13 🔻
                rem=j%10;
14
                if(rem==3||rem==4)
15
                j=(j/10);
16
                else
17
18 🔻
19
                    fg=1;
20
                    break;
21
22
23
            if(fg==0)
24 🔻
25
                cnt++;
                if(cnt==n)
26
                break;
27
28
29
        printf("%ld",i);
30
        return 0;
31
32 }
```

	Input	Expected	Got	
~	34	33344	33344	<b>~</b>

Passed all tests! ✓

Finish review