

Write a c program to find Odd and even number in a range.

The image shows a C++ IDE (Dev-C++) with a project named "Odd and Even number in a range.cpp". The code in the editor is as follows:

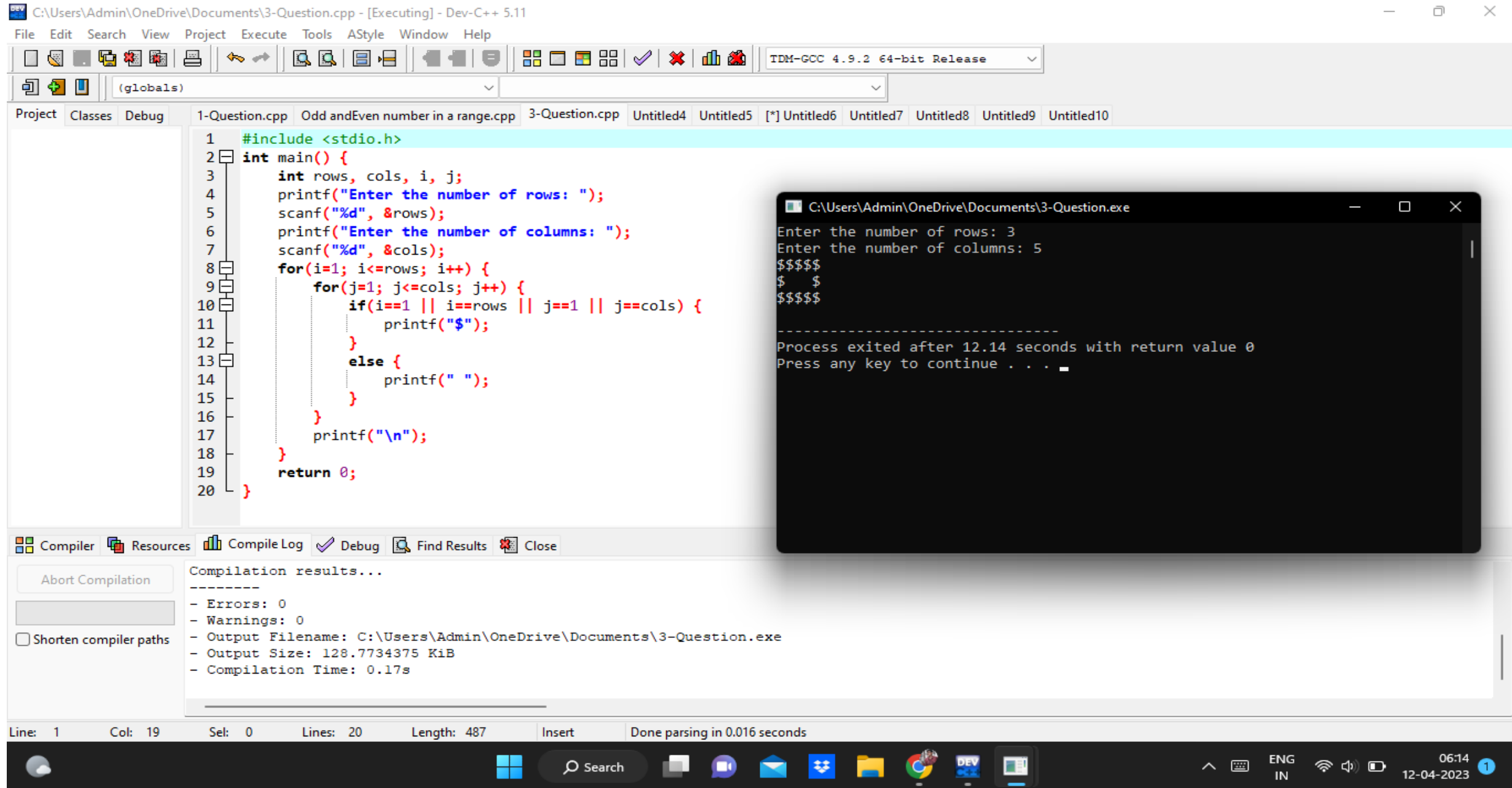
```
1 #include <stdio.h>
2 int main() {
3     int start, end, i;
4     printf("Enter the starting number: ");
5     scanf("%d", &start);
6     printf("Enter the ending number: ");
7     scanf("%d", &end);
8     printf("Odd numbers between %d and %d are: ", start, end);
9     for(i=start; i<=end; i++) {
10         if(i%2 != 0) {
11             printf("%d ", i);
12         }
13     }
14     printf("\nEven numbers between %d and %d are: ", start, end);
15     for(i=start; i<=end; i++) {
16         if(i%2 == 0) {
17             printf("%d ", i);
18         }
19     }
20     return 0;
21 }
```

The output window shows the program's execution results:

```
Enter the starting number: 3
Enter the ending number: 20
Odd numbers between 3 and 20 are: 3 5 7 9 11 13 15 17 19
Even numbers between 3 and 20 are: 4 6 8 10 12 14 16 18 20
-----
Process exited after 8.222 seconds with return value 0
Press any key to continue . . .
```

The IDE's status bar at the bottom indicates "Line: 1 Col: 19 Sel: 0 Lines: 21 Length: 555 Insert Done parsing in 0 seconds". The Windows taskbar at the bottom shows the time as 06:11 on 12-04-2023.

Write a c program to implement Hallow rectangle using \$.



The image shows a screenshot of the Dev-C++ 5.11 IDE. The main window displays a C program named "3-Question.cpp" which implements a hollow rectangle using the '\$' character. The program prompts the user to enter the number of rows and columns, then prints the rectangle. The output window shows the execution results, including the input values (3 rows, 5 columns) and the resulting hollow rectangle pattern.

```
1 #include <stdio.h>
2 int main() {
3     int rows, cols, i, j;
4     printf("Enter the number of rows: ");
5     scanf("%d", &rows);
6     printf("Enter the number of columns: ");
7     scanf("%d", &cols);
8     for(i=1; i<=rows; i++) {
9         for(j=1; j<=cols; j++) {
10             if(i==1 || i==rows || j==1 || j==cols) {
11                 printf("$");
12             }
13             else {
14                 printf(" ");
15             }
16         }
17         printf("\n");
18     }
19     return 0;
20 }
```

Execution Output:

```
C:\Users\Admin\OneDrive\Documents\3-Question.exe
Enter the number of rows: 3
Enter the number of columns: 5
$$$$$
$  $
$$$$$

-----
Process exited after 12.14 seconds with return value 0
Press any key to continue . . .
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\3-Question.exe
- Output Size: 128.7734375 KiB
- Compilation Time: 0.17s

Line: 1 Col: 19 Sel: 0 Lines: 20 Length: 487 Insert Done parsing in 0.016 seconds

Write a c program to find Square root of a given number.

The image shows the Dev-C++ IDE interface. The main window displays a C program that calculates the square root of a user-input number. The program includes `<stdio.h>` and `<math.h>`, uses `scanf` to read a number, `sqrt` to calculate the square root, and `printf` to display the result. The output window shows the program's execution with the input 121 and the resulting square roots 11.00 and -11.000000. The bottom status bar indicates the current cursor position and compilation details.

Code in 4-.cpp:

```
1 #include <stdio.h>
2 #include <math.h>
3
4 int main() {
5     double num, sqroot;
6
7     printf("Enter a number: ");
8     scanf("%lf", &num);
9
10    sqroot = sqrt(num);
11
12    printf("The square root is %.2lf and -%.2lf", sqroot, sqroot);
13
14    return 0;
15 }
```

Output Window (C:\Users\Admin\OneDrive\Documents\4-.exe):

```
Enter a number: 121
The square root is 11.00 and -11.000000
-----
Process exited after 3.294 seconds with return value 0
Press any key to continue . . .
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\4-.exe
- Output Size: 132.3701171875 KiB
- Compilation Time: 0.22s

Status Bar: Line: 9 Col: 5 Sel: 0 Lines: 15 Length: 272 Insert Done parsing in 0.016 seconds

Write a c proram to Armstrong and perfect number.

The image shows a screenshot of the Dev-C++ IDE. The main window displays a C program for checking Armstrong and Perfect numbers. The code is as follows:

```
16 temp = num;
17 while(temp != 0) {
18     int rem = temp % 10;
19     sum += pow(rem, digits);
20     temp /= 10;
21 }
22 if(sum == num) {
23     printf("%d is an Armstrong number\n", num);
24 }
25 else {
26     printf("%d is not an Armstrong number\n", num);
27 }
28
29 // Perfect number
30 printf("Enter a number to check if it is a Perfect number: ");
31 scanf("%d", &num);
32 sum = 0;
33 for(i=1; i<num; i++) {
34     if(num % i == 0) {
35         sum += i;
36     }
37 }
```

The console window (C:\Users\Admin\OneDrive\Documents\5-Question.exe) shows the execution results for the number 371:

```
Enter a number to check if it is an Armstrong number: 371
371 is an Armstrong number
Enter a number to check if it is a Perfect number: 371
371 is not a Perfect number

-----
Process exited after 13.51 seconds with return value 0
Press any key to continue . . .
```

The bottom status bar shows the compilation results:

```
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\5-Question.exe
- Output Size: 151.7294921875 KiB
- Compilation Time: 1.59s
```

The bottom status bar also shows the current line and column: Line: 43, Col: 6, Sel: 0, Lines: 45, Length: 1014, Insert, Done parsing in 0.031 seconds.

Write a c program for Pascal triangle.

C:\Users\Admin\OneDrive\Documents\6-Question.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug 1-Question.cpp Odd andEven number in a range.cpp 3-Question.cpp 4-.cpp 5-Question.c 6-Question.cpp Untitled7 Untitled8 Untitled9 Untitled10

```
1 #include <stdio.h>
2 int main() {
3     int rows, coef = 1, i, j;
4     printf("Enter the number of rows: ");
5     scanf("%d", &rows);
6     for(i=0; i<rows; i++) {
7         for(j=1; j<=rows-i; j++) {
8             printf(" ");
9         }
10        for(j=0; j<=i; j++) {
11            if(j==0 || i==0) {
12                coef = 1;
13            }
14            else {
15                coef = coef * (i-j+1)/j;
16            }
17            printf("%d ", coef);
18        }
19        printf("\n");
20    }
21    return 0;
22 }
```

```
C:\Users\Admin\OneDrive\Documents\6-Question.exe
Enter the number of rows: 5
1
1 1
1 2 1
1 3 3 1
1 4 6 4 1

-----
Process exited after 10.09 seconds with return value 0
Press any key to continue . . .
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\6-Question.exe
- Output Size: 128.7734375 KiB
- Compilation Time: 0.20s
```

Line: 1 Col: 19 Sel: 0 Lines: 22 Length: 510 Insert Done parsing in 0.015 seconds



Search



ENG
IN

06:21
12-04-2023

C program for Sum of digits.

C:\Users\Admin\OneDrive\Documents\7-Question.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug 1-Question.cpp Odd andEven number in a range.cpp 3-Question.cpp 4-.cpp 5-Question.c 6-Question.cpp 7-Question.cpp Untitled8 Untitled9 Untitled10

```
1 #include <stdio.h>
2
3 int main() {
4     int num, sum = 0, digit;
5
6     printf("Enter a number: ");
7     scanf("%d", &num);
8
9     while(num != 0) {
10         digit = num % 10;
11         sum += digit;
12         num /= 10;
13     }
14
15     printf("The sum of the digits is %d\n", sum);
16
17     return 0;
18 }
```

```
C:\Users\Admin\OneDrive\Documents\7-Question.exe
Enter a number: 1567
The sum of the digits is 19

-----
Process exited after 8.519 seconds with return value 0
Press any key to continue . . .
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\7-Question.exe
- Output Size: 128.1015625 KiB
- Compilation Time: 0.17s
```

Line: 18 Col: 2 Sel: 0 Lines: 18 Length: 316 Insert Done parsing in 0.016 seconds

C program for Fabonacci series.

The image shows the Dev-C++ IDE interface. The main editor window displays a C program for calculating the Fibonacci series. The code is as follows:

```
1 #include <stdio.h>
2 int main() {
3     int num, first = 0, second = 1, next, i;
4     printf("Enter the number of terms: ");
5     scanf("%d", &num);
6     printf("Fibonacci series: ");
7     for(i=0; i<num; i++) {
8         if(i<=1) {
9             next = i;
10        }
11        else {
12            next = first + second;
13            first = second;
14            second = next;
15        }
16        printf("%d ", next);
17    }
18    return 0;
19 }
```

The output window shows the execution results:

```
Fibonacci series: 0 1 1 2 3
-----
Process exited after 8.656 seconds with return value 0
Press any key to continue . . .
```

The compilation results window shows the following details:

```
Compilation results...
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\8-Question.exe
- Output Size: 128.1015625 KiB
- Compilation Time: 0.22s
```

The status bar at the bottom indicates the current line and column: Line: 1, Col: 19. The system tray shows the date and time: 06:24, 12-04-2023.

C program for Right triangle star pattern.

The image shows the Dev-C++ IDE interface. The main editor window displays the following C code:

```
1 #include <stdio.h>
2
3 int main() {
4     int rows, i, j;
5
6     printf("Enter the number of rows: ");
7     scanf("%d", &rows);
8
9     for(i=1; i<=rows; i++) {
10         for(j=1; j<=i; j++) {
11             printf("* ");
12         }
13         printf("\n");
14     }
15
16     return 0;
17 }
```

The code is compiled and executed. The output window shows the following text:

```
C:\Users\Admin\OneDrive\Documents\9-QUE.exe
Enter the number of rows: 5
*
* *
* * *
* * * *
* * * * *

-----
Process exited after 2.662 seconds with return value 0
Press any key to continue . . .
```

The compilation results window shows the following information:

```
Compilation results...
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\9-QUE.exe
- Output Size: 128.7734375 KiB
- Compilation Time: 0.31s
```

The status bar at the bottom indicates: Line: 17, Col: 2, Sel: 0, Lines: 17, Length: 290, Insert, Done parsing in 0.016 seconds.

C program to find LCM and GCD.

C:\Users\Admin\OneDrive\Documents\10-que.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug 1-Question.cpp Odd andEven number in a range.cpp 3-Question.cpp 4-.cpp 5-Question.c 6-Question.cpp 7-Question.cpp 8-Question.cpp 9-QUE.cpp 10-que.cpp

```
1 #include <stdio.h>
2 int main() {
3     int num1, num2, gcd, lcm, i;
4     printf("Enter two numbers: ");
5     scanf("%d %d", &num1, &num2);
6
7     // calculate GCD
8     for(i=1; i<=num1 && i<=num2; i++) {
9         if(num1%i==0 && num2%i==0) {
10             gcd = i;
11         }
12     }
13
14     // calculate LCM
15     lcm = (num1 * num2) / gcd;
16
17     printf("GCD of %d and %d is %d\n", num1, num2, gcd);
18     printf("LCM of %d and %d is %d\n", num1, num2, lcm);
19     return 0;
20 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\10-que.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.17s
```

Line: 1 Col: 19 Sel: 0 Lines: 20 Length: 486 Insert Done parsing in 0.016 seconds

C:\Users\Admin\OneDrive\Documents\10-que.exe

```
Enter two numbers: 345
265
GCD of 345 and 265 is 5
LCM of 345 and 265 is 18285

-----
Process exited after 14.14 seconds with return value 0
Press any key to continue . . .
```

06:26 12-04-2023

Write a C program to print n prime numbers, then find the Nth prime number.

The image shows the Dev-C++ IDE interface. The main window displays a C program in `11-que.cpp` that calculates the first `n` prime numbers. The program uses a nested loop to check for primality. A console window is open, showing the program's output for `n=5`. The bottom status bar shows the current cursor position at Line 1, Column 19.

```
1 #include <stdio.h>
2 int main() {
3     int n, count = 0, i, j, isPrime, nthPrime;
4     printf("Enter the number of prime numbers: ");
5     scanf("%d", &n);
6     printf("The first %d prime numbers are: ", n);
7
8     // print n prime numbers
9     for(i=2; count<n; i++) {
10         isPrime = 1;
11         for(j=2; j<=i/2; j++) {
12             if(i%j==0) {
13                 isPrime = 0;
14                 break;
15             }
16         }
17         if(isPrime) {
18             printf("%d ", i);
19             count++;
20         }
21     }
22 }
```

Output:

```
The first 5 prime numbers are: 2 3 5 7 11
The 5th prime number is 11
-----
Process exited after 2.206 seconds with return value 0
Press any key to continue . . .
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\11-que.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.30s

Line: 1 Col: 19 Sel: 0 Lines: 41 Length: 985 Insert Done parsing in 0 seconds