

```
C:\Users\jaswa\OneDrive\Documents\day1.14c.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug day1.c day1.4c.cpp day1.6c.cpp day1.8c.cpp day1.10c.cpp day1.12c.cpp day1.14c.cpp [*] day1.18c.cpp
1 #include <stdio.h>
2 int main() {
3
4     int i, n;
5
6     int t1 = 0, t2 = 1;
7
8     int nextTerm = t1 + t2;
9
10    printf("Enter the number of terms: ");
11    scanf("%d", &n);
12
13    printf("Fibonacci Series: %d, %d, ", t1, t2);
14
15    for (i = 3; i <= n; ++i)
16    {
17        printf("soumil 1922102491");
18        public int __cdecl printf (const char * __restrict __format, ...)
19        t2 = nextTerm;
20        nextTerm = t1 + t2;
21    }
22
23    return 0;
24 }
25
26
Compiler Resources Compile Log Debug Find Results Close
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.14c.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.44s
17 Col: 20 Col: 0 Line: 26 Length: 404 Insert Done parsing in 0.047 seconds
```

```
C:\Users\jaswa\OneDrive\Doc x + v - □ x
Enter the number of terms: 3
Fibonacci Series: 0, 1, soumil 1922102491,
-----
Process exited after 2.272 seconds with return value 0
Press any key to continue . . .
```

C:\Users\jaswa\OneDrive\Documents\day1.18c.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug day1.c day1.4c.cpp day1.6c.cpp day1.8c.cpp day1.10c.cpp day1.12c.cpp day1.14c.cpp day1.18c.cpp

```
1 #include<stdio.h>
2 long int multiplyNumbers(int n);
3 int main()
4 {
5     int n;
6     printf("soumil 192210249");
7     printf("Enter a positive integer: ");
8     scanf("%d",&n);
9     printf("Factorial of %d = %ld", n, multiplyNumbers(n));
10    return 0;
11 }
12
13 long int multiplyNumbers(int n) {
14     if (n>=1)
15         return n*multiplyNumbers(n-1);
16     else
17         return 1;
18 }
19
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.18c.exe
- Output Size: 129.1396484375 KiB
- Compilation Time: 0.31s

C:\Users\jaswa\OneDrive\Doc

```
soumil 192210249Enter a positive integer: 4
Factorial of 4 = 24
-----
Process exited after 3.272 seconds with return value 0
Press any key to continue . . .
```



```
1 #include<stdio.h>
2
3 int main() {
4     char ch;
5     printf("soumil 192210305");
6     printf("\nEnter The Character : ");
7     scanf("%c", &ch);
8
9     if (ch >= 'A' && ch <= 'Z')
10         printf("Character is Upper Case Letters");
11     else
12         printf("Character is Not Upper Case Letters");
13
14     return (0);
15 }
```

```
/tmp/XanKDGGkoV.o
soumil 192210305
Enter The Character : hf
Character is Not Upper Case Letters
```



```

1  #include <stdio.h>
2  int main() {
3      char c;
4      printf("soumil 192210305");
5      printf("Enter a character: ");
6      scanf("%c", &c);
7
8      if ((c >= 'a' && c <= 'z') || (c >= 'A' && c <= 'Z'))
9          printf("%c is an alphabet.", c);
10     else
11         printf("%c is not an alphabet.", c);
12
13     return 0;
14 }

```

```

/tmp/XanKDGKkoV.o
soumil 192210305Enter a character: hg
h is an alphabet.

```



```
1 #include <stdio.h>
2 void main()
3 {
4     int num;
5     printf("soumil 192210305");
6     printf("Input a number :");
7     scanf("%d", &num);
8     if (num >= 0)
9         printf("%d is a positive number \n", num);
10    else
11        printf("%d is a negative number \n", num);
12 }
```

```
/tmp/xatKDGKKOV.o
soumil 192210305Input a number :32
32 is a positive number
```



C:\Users\jaswa\OneDrive\Documents\day1.10c.cpp - [Executing] - Dev-C++ 5.11

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(globals)

Project Classes Debug day1.c day1.4c.cpp day1.6c.cpp day1.8c.cpp day1.10c.cpp [*] day1.12c.cpp [*] day1.14c.cpp [*] day1.16c.cpp

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int x, y;
6     printf("soumil 192210249");
7     scanf("%d", &x);
8     printf("\nEnter Value of y ");
9     scanf("%d", &y);
10
11     int temp = x;
12     x = y;
13     y = temp;
14
15     printf("\nAfter Swapping: x = %d, y = %d", x, y);
16     return 0;
17 }
18
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.10c.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.55s

C:\Users\jaswa\OneDrive\Doc

```
soumil 192210249Enter Value of x 6
Enter Value of y 9
After Swapping: x = 9, y = 6
-----
Process exited after 4.436 seconds with return value 0
Press any key to continue . . .
```




```
C:\Users\jaswa\OneDrive\Documents\day1.6c.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug day1.c day1.4c.cpp day1.6c.cpp [*] day1.8c.cpp [*] day1.10c.cpp [*] day1.12c.cpp [*] day1.14c.cpp [*]
1 #include <stdio.h>
2 #include <math.h>
3 int main()
4 {
5     int low, high;
6     printf("soumil 192210249");
7     public int __cdecl printf (const char * __restrict __Format, ...)
8     scanf("%d", &high);
9     printf("Enter the ending value of the range: ");
10    scanf("%d", &high);
11    printf("All Armstrong numbers between %d and %d are:\n", low, high);
12    for(int n=low; n<=high; n++)
13    {
14        int num = n, rem, sum=0;
15        if(n<=9)
16        {
17            printf("%d ", n);
18        }
19        else
20        {
21            int digit = (int) log10(num) + 1;
22            while(num > 0)
23            {
24                rem = num % 10;
25                sum = sum + pow(rem, digit);
26                num = num / 10;
27            }
28            if (sum == n)
29            {
30                printf("%d ", n);
31            }
32        }
33    }
34}
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.6c.exe
- Output Size: 151.8994140625 KiB
- Compilation Time: 0.45s

```
C:\Users\jaswa\OneDrive\Doc x + v
soumil 192210249Enter the starting value of the range:8
Enter the ending value of the range: 8
All Armstrong numbers between 8 and 8 are:
8
-----
Process exited after 7.42 seconds with return value 0
Press any key to continue . . .
```

C:\Users\jaswa\OneDrive\Documents\day1.8c.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug day1.c day1.4c.cpp day1.6c.cpp day1.8c.cpp [*] day1.10c.cpp [*] day1.12c.cpp [*] day1.14c.cpp [*] day1.16c.cpp

```
1  #include <stdio.h>
2
3  int recSum(int n)
4  {
5      if (n <= 1)
6          return n;
7
8      return n + recSum(n - 1);
9  }
10
11 int main()
12 {
13     int n = 10;
14     printf("soumil 192210249");
15     public int __cdecl printf (const char * __restrict __Format, ...)
16     return 0;
17 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.8c.exe
- Output Size: 128.4599609375 KiB
- Compilation Time: 0.70s

C:\Users\jaswa\OneDrive\Doc

```
soumil 192210249Sum = 55
-----
Process exited after 0.03334 seconds with return value 0
Press any key to continue . . .
```


C:\Users\jaswa\OneDrive\Documents\day1.20c.cpp - [executing] - Dev-C++ 5.11

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(globals)

Project Classes Debug day1.c day1.4c.cpp day1.6c.cpp day1.8c.cpp day1.10c.cpp day1.12c.cpp day1.14c.cpp day1.18c.cpp

```
1 #include <stdio.h>
2
3 void floyds_triangle(int rows)
4 {
5     int i, j, k = 1;
6     for (i = 1; i <= rows; i++)
7     {
8         for (j = 1; j <= i; j++)
9         {
10             printf("%4.d ", k ++);
11         }
12         printf("\n");
13     }
14 }
15
16 int main(void)
17 {
18     int rows;
19     printf("soumil 192210249");
20     public int __cdecl printf (const char * __restrict __Format, ...)
21     scanf("%d", &rows);
22     floyds_triangle(rows);
23
24     return 0;
25 }
26
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.20c.exe
- Output Size: 129.3115234375 KiB
- Compilation Time: 0.72s

C:\Users\jaswa\OneDrive\Doc x + v

```
soumil 192210249Enter the number of rows: 2
1
2 3

-----
Process exited after 3.013 seconds with return value 0
Press any key to continue . . . |
```



```
C:\Users\jaswa\OneDrive\Documents\day1.12c.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug day1.c day1.4c.cpp day1.6c.cpp day1.8c.cpp day1.10c.cpp day1.12c.cpp [*] day1.14c.cpp [*] day1.18c.cpp
1 #include <stdio.h>
2
3 int main()
4 {
5     int n, i;
6     printf("soumil 192210249");
7     public int __cdecl printf (const char * __restrict __Format, ...)
8     scanf("%d", &n);
9     printf("Multiplication table of %d:\n", n);
10    printf("-----\n");
11    for (i = 1; i <= 10; i++)
12        printf("%d x %d = %d\n", n, i, n * i);
13    return 0;
14 }

Compiler Resources Compile Log Debug Find Results Close
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.12c.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.63s
Line: 6 Col: 29 Sel: 0 Lines: 14 Length: 333 Insert Done parsing in 0.031 seconds
```

```
C:\Users\jaswa\OneDrive\Doc x + v
soumil 192210249Enter a number: 2
Multiplication table of 2:
-----
2 x 1 = 2
2 x 2 = 4
2 x 3 = 6
2 x 4 = 8
2 x 5 = 10
2 x 6 = 12
2 x 7 = 14
2 x 8 = 16
2 x 9 = 18
2 x 10 = 20
-----
Process exited after 4.405 seconds with return value 0
Press any key to continue . . .
```



```
C:\Users\jaswa\OneDrive\Documents\day1.4c.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug day1.c day1.4c.cpp [*] day1.6c.cpp [*] day1.8c.cpp [*] day1.10c.cpp [*] day1.12c.cpp [*] day1.14c.cpp
21 | }
22 | if (sum == n)
23 | {
24 |     return 1;
25 | }
26 | else
27 | {
28 |     return 0;
29 | }
30 | }
31 |
32 | void printStrong(long n)
33 | {
34 |     long i;
35 |     for (i = 1; i <= n; i++)
36 |     {
37 |         if (isStrong(i) == 1)
38 |         {
39 |             printf("%ld\n", i);
40 |         }
41 |     }
42 | }
43 |
44 | int main(void)
45 | {
46 |     long n;
47 |     printf("soumil 192210249");
48 |     printf("Enter the number: ");
49 |     scanf("%ld", &n);
50 |     printf("Strong Numbers are: ");
51 |     printStrong(n);
52 | }
Compiler Resources Compile Log Debug Find Results Close
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.4c.exe
- Output Size: 129.197265625 KiB
- Compilation Time: 0.64s
47 Col: 30 Col: 16 Line: 52 Length: 788 Insert Done parsing in 0.046 seconds
```

```
C:\Users\jaswa\OneDrive\Doc x + v
soumil 192210249Enter the number: 4
Strong Numbers are: 1
2
-----
Process exited after 2.439 seconds with return value 0
Press any key to continue . . .
```



C:\Users\jaswa\OneDrive\Documents\day1.c - [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 day1.c day1.4c.cpp [*] day1.6c.cpp day1.8c.cpp day1.10c.cpp day1.12c.cpp day1.14c.cpp [*] day1.18c.cpp day1.20c.cpp

```
1 #include <math.h>
2 #include <stdio.h>
3 int main()
4 {
5     int n, i, flag = 1;
6     printf("soumil 192210305");
7     scanf("%d", &n);
8
9     for (i = 2; i <= sqrt(n); i++) {
10
11         if (n % i == 0) {
12             flag = 0;
13             break;
14         }
15     }
16
17     if (n <= 1)
18         flag = 0;
19
20     if (flag == 1) {
21         printf("%d is a prime number", n);
22     }
23     else {
24         printf("%d is not a prime number", n);
25     }
26
27     return 0;
28 }
29
30
31
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.exe
- Output Size: 133.0390625 KiB
- Compilation Time: 0.66s

Line: 6 Col: 30 Sel: 0 Lines: 31 Length: 518 Insert Done parsing in 0.063 seconds

C:\Users\jaswa\OneDrive\Doc x + v - □ ×

soumil 192210305Enter a number:



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