

D:\C\24.06.2021\Factorial.c - 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 Factorial.c y=x^n.c LCM.c GCD.c TOH.c Fibonacci.c

```
1 //Question 1.
2 #include<stdio.h>
3 int fact(int n);
4 int main()
5 {
6     int num;
7     printf("Enter a number : ");
8     scanf("%d", &num);
9     if(num<0)
10         printf("No factorial for negative numbers\n");
11     else
12         printf("Factorial for %d is %d\n", num, fact(num));
13     return 0;
14 }
15 int fact(int n)
16 {
17     if(n==0)
18         return 1;
19     return (n * fact(n-1));
20 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

- Warnings: 0
- Output Filename: D:\C\24.06.2021\TOH.exe
- Output Size: 128.619140625 KiB
- Compilation Time: 0.52s

☐ Shorten compiler paths

Line: 20 Col: 3 Sel: 0 Lines: 20 Length: 364 Insert Done parsing in 0.016 seconds



Type here to search



34°C Light rain



16:24
24-06-2021



D:\C\24.06.2021\Factorial.c - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

D:\C\24.06.2021\Factorial.exe

Enter a number : 4

Factorial for 4 is 24

Process exited after 5.066 seconds with return value 0

Press any key to continue . . .

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

- Warnings: 0
- Output Filename: D:\C\24.06.2021\Factorial.exe
- Output Size: 129.2880859375 KiB
- Compilation Time: 0.47s

☐ Shorten compiler paths

Line: 20 Col: 3 Sel: 0 Lines: 20 Length: 364 Insert Done parsing in 0.016 seconds



Type here to search



34°C Light rain 16:24 24-06-2021 ENG

D:\C\24.06.2021\y=x^n.c - 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 Factorial.c y=x^n.c LCM.c GCD.c TOH.c Fibonacci.c

```
1 //Question 2.
2 #include <stdio.h>
3 int power (int, int);
4 int main()
5 {
6     int pow, num;
7     int result;
8     printf("Enter a number: ");
9     scanf("%d", &num);
10    printf("Enter it's power: ");
11    scanf("%d", &pow);
12    result = power(num, pow);
13    printf("The result is %d", result);
14    return 0;
15 }
16
17 int power (int num, int pow)
18 {
19     if (pow)
20     {
21         return (num * power(num, pow - 1));
22     }
23     return 1;
24 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

- Warnings: 0
- Output Filename: D:\C\24.06.2021\y=x^n.exe
- Output Size: 128.619140625 KiB
- Compilation Time: 0.53s

☐ Shorten compiler paths

Line: 24 Col: 3 Sel: 0 Lines: 24 Length: 443 Insert Done parsing in 0.016 seconds



Type here to search



34°C Light rain

ENG

16:25

24-06-2021

D:\C\24.06.2021\y=x^n.c - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

D:\C\24.06.2021\y=x^n.exe

```
1
2Enter a number: 2
3Enter it's power: 3
4The result is 8
5-----
6Process exited after 3.021 seconds with return value 0
7Press any key to continue . . .
```

Process exited after 3.021 seconds with return value 0

Press any key to continue . . .

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

```
- Warnings: 0
- Output Filename: D:\C\24.06.2021\y=x^n.exe
- Output Size: 128.619140625 KiB
- Compilation Time: 0.56s
```

☐ Shorten compiler paths

Line: 24 Col: 3 Sel: 0 Lines: 24 Length: 443 Insert Done parsing in 0.016 seconds



Type here to search



34°C Light rain 16:25 24-06-2021 ENG

```
1 //Question 3.
2 #include<stdio.h>
3 int lcm(int a, int b);
4 int main()
5 {
6     int i, j, LCM;
7     printf("Enter any two numbers : ");
8     scanf("%d%d", &i, &j);
9     if(i > j)
10         LCM = lcm(j, i);
11     else
12         LCM = lcm(i, j);
13
14     printf("LCM of %d and %d = %d", i, j, LCM);
15 }
16 int lcm(int a, int b)
17 {
18     int mul = 0;
19     mul += b;
20     if((mul % a == 0) && (mul % b == 0))
21     {
22         return mul;
23     }
24     else
25     {
26         return lcm(a, b);
27     }
28 }
```

Abort Compilation

```
- Warnings: 0
- Output Filename: D:\C\24.06.2021\y=x^n.exe
- Output Size: 128.619140625 KiB
- Compilation Time: 0.56s
```

☐ Shorten compiler paths

D:\C\24.06.2021\LCM.c - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug D:\C\24.06.2021\LCM.exe

```
Enter any two numbers : 10
40
LCM of 10 and 40 = 40
-----
Process exited after 7.134 seconds with return value 21
Press any key to continue . . .
```

1
1
1
1
1
1
1
1
1
1
1
2
2
2
2
2
2
2

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

```
- Warnings: 0
- Output Filename: D:\C\24.06.2021\LCM.exe
- Output Size: 128.619140625 KiB
- Compilation Time: 0.42s
```

☐ Shorten compiler paths

Line: 28 Col: 3 Sel: 0 Lines: 28 Length: 493 Insert Done parsing in 0.016 seconds



Type here to search



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ENG

16:26
24-06-2021

D:\C\24.06.2021\GCD.c - 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 Factorial.c y=x^n.c LCM.c GCD.c TOH.c Fibonacci.c

```
1 //Question 4.
2 #include <stdio.h>
3 int gcd(int x, int y);
4 int main()
5 {
6     int N1, N2;
7     printf("Enter the two numbers: \n");
8     scanf("%d %d", &N1, &N2);
9
10    printf("GCD of %d and %d is = %d", N1, N2, gcd(N1, N2));
11    return 0;
12 }
13 int gcd(int x, int y)
14 {
15     if (y == 0)
16     {
17         return x;
18     }
19     else
20     {
21         return gcd(y, x % y);
22     }
23 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

- Warnings: 0
- Output Filename: D:\C\24.06.2021\LCM.exe
- Output Size: 128.619140625 KiB
- Compilation Time: 0.42s

☐ Shorten compiler paths

Line: 23 Col: 3 Sel: 0 Lines: 23 Length: 362 Insert Done parsing in 0.016 seconds



Type here to search



D:\C\24.06.2021\GCD.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 Factorial.c y=x^n.c LCM.c GCD.c TOH.c Fibonacci.c

```
1 D:\C\24.06.2021\GCD.exe
2
3 Enter the two numbers:
4 12
5 27
6 GCD of 12 and 27 is = 3
7 -----
8 Process exited after 7.292 seconds with return value 0
9 Press any key to continue . . .
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

```
- Warnings: 0
- Output Filename: D:\C\24.06.2021\GCD.exe
- Output Size: 128.7880859375 KiB
- Compilation Time: 0.55s
```

☐ Shorten compiler paths

Line: 23 Col: 3 Sel: 0 Lines: 23 Length: 362 Insert Done parsing in 0.016 seconds



Type here to search



34°C Light rain 16:26 24-06-2021 ENG


```
1 //Question 5.
2 #include<stdio.h>
3 int TOH(int, char, char, char);
4 int main()
5 {
6     int n;
7     printf("Enter the no.of disks : ");
8     scanf("%d", &n);
9     TOH(n, 'S', 'T', 'D');
10 }
11 int TOH(int n, char S, char T, char D)
12 {
13     if(n==1)
14         printf("\nMove the disk from %c to %c", S, D);
15     else
16     {
17         TOH(n-1, S, D, T);
18         printf("\nMove the disk from %c to %c", S, D);
19         TOH(n-1, T, S, D);
20     }
21 }
```

Abort Compilation

- Warnings: 0
- Output Filename: D:\C\24.06.2021\GCD.exe
- Output Size: 128.7880859375 KiB
- Compilation Time: 0.55s

☐ Shorten compiler paths

D:\C\24.06.2021\TOH.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

```
D:\C\24.06.2021\TOH.exe
Enter the no.of disks : 3

Move the disk from S to D
Move the disk from S to T
Move the disk from D to T
Move the disk from S to D
Move the disk from T to S
Move the disk from T to D
Move the disk from S to D
-----
Process exited after 4.979 seconds with return value 26
Press any key to continue . . .
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

- Warnings: 0
- Output Filename: D:\C\24.06.2021\TOH.exe
- Output Size: 128.619140625 KiB
- Compilation Time: 0.55s

☐ Shorten compiler paths

Line: 21 Col: 3 Sel: 0 Lines: 21 Length: 375 Insert Done parsing in 0.016 seconds

```
1 //Question 6.
2 #include<stdio.h>
3 int fibonacci(int n);
4 int main()
5 {
6     int n, m= 0, i;
7     printf("Enter Total terms : ");
8     scanf("%d", &n);
9     printf("Fibonacci series terms are : ");
10    for(i = 1; i <= n; i++)
11    {
12        printf("%d ", fibonacci(m));
13        m++;
14    }
15    return 0;
16 }
17 int fibonacci(int n)
18 {
19     if(n == 0 || n == 1)
20         return n;
21     else
22         return(fibonacci(n-1) + fibonacci(n-2));
23 }
```

Abort Compilation

```
- Warnings: 0
- Output Filename: D:\C\24.06.2021\TOH.exe
- Output Size: 128.619140625 KiB
- Compilation Time: 0.55s
```

☐ Shorten compiler paths

