

Start here Untitled3.c

```
1 #include <stdio.h>
2 int main (void)
3 {
4     int a = 25, b = 5, c = 10, d = 7;
5     printf ("a = %i, b = %i, c = %i, and d = %i\n", a, b, c, d);
6     printf ("a %% b = %i\n", a % b);
7     printf ("a %% b = %i\n", a % c);
8     printf ("a %% b = %i\n", a % d);
9     printf ("a / d * d + a % d = %i\n", a / d * d + a % d);
10
11    return 0;
12
13
14
15
16 }
```

D:\6813134\Untitled3.exe

```
a = 25, b = 5, c = 10, and d = 7
a % b = 0
a % b = 5
a % b = 4
a / d * d + a % d = 25

Process returned 0 (0x0) execution time : 0.012 s
Press any key to continue.
```

Logs & others

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Start here Untitled3.c

```
1 #include <stdio.h>
2 int main (void)
3 {
4     int a = 95, b = 3, c = 75, d = 10;
5     printf ("a = %i, b = %i, c = %i, and d = %i\n", a, b, c, d);
6     printf ("a %% b = %i\n", a % b);
7     printf ("a %% b = %i\n", a % c);
8     printf ("a %% b = %i\n", a % d);
9     printf ("a / d * d + a % d = %i\n", a / d * d + a % d);
10
11    return 0;
12
13
14
15
16 }
```

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```
a = 95, b = 3, c = 75, and d = 10
a % b = 2
a % b = 20
a % b = 5
a / d * d + a % d = 95

Process returned 0 (0x0) execution time : 0.636 s
Press any key to continue.
```

Logs & others

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Start here Untitled3.c

```
1 #include <stdio.h>
2 int main (void)
3 {
4
5     int a = 95, b = 3, c = 75, d = 10;
6     int result;
7     result = a - b; // subtraction
8     printf ("%a - b = %i\n", result);
9     printf ("a = %i, b = %i, c = %i, and d = %i\n", a, b, c, d);
10    printf ("a %% b = %i\n", a % b);
11    printf ("a % b = %i\n", a % c);
12    printf ("a / b = %i\n", a / b);
13    printf ("a / d * d + a %% d = %i\n", a / d * d + a % d);
14
15    return 0;
16
17
18
19 }
```

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```
a - b = 92
a = 95, b = 3, c = 75, and d = 10
a % b = 2
a % b = 20
a % b = 5
a / d * d + a % d = 95

Process returned 0 (0x0) execution time : 0.732 s
Press any key to continue.
```

Logs & others

Code::Blocks Search results Cccc Build log Build messages CppCheck

File Line Message

```
==== Build file: "no target" in "no project" (compiler: unknown) ====
==== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s))
```

Start here Untitled3.c

```
1 #include <stdio.h>
2 int main (void)
3 {
4
5     int a = 20;
6     int b = 5;
7
8     float c = 20.0;
9     float d = 5.0;
10
11    printf ("%6 + a / 5 * b = %i\n", 6 + a / 5 * b);
12    printf ("a / b * b = %i\n", b * b);
13    printf ("c / d * d = %i\n", d * d);
14    printf ("%a = %i\n", -a);
15
16
17    return 0;
18
19
20
21 }
```

D:\6813134\Untitled3.exe

```
6 + a / 5 * b = 26
a / b * b = 25
c / d * d = 0
-a = -20

Process returned 0 (0x0) execution time : 0.630 s
Press any key to continue.
```

Logs & others

Code::Blocks Search results Cccc Build log Build messages Fortran info CppCheck

File Line Message

```
==== Build file: "no target" in "no project" (compiler: unknown) ====
==== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s))
```

The screenshot shows a C IDE interface. On the left, the code file 'Untitled3.c' is displayed:

```

1 #include <stdio.h>
2 int main (void)
3 {
4     float f1=123.125,f2;
5     int i1,i2=-150;
6     char c='a';
7     i1=f1;//float to integer conversion
8     printf ("%f assigned to an int produces %f\n",f1,i1);
9     f1=i2;//integer to float conversion
10    printf ("%f assigned to an int produces %f\n",i2,f1);
11    f2=i2/100.0;//integer divided by float
12    printf ("%i divided by 100 produces %f\n",i2,f2);
13    f2=(float)i2/100;//type cast operator
14    printf("(float)%i divided by 100 produces %f\n",i2,f2);
15
16 }
17
18
19
20
21
22
23

```

On the right, the terminal window shows the execution of the program:

```

D:\6813134\Untitled3.exe
123.125000 assigned to an int produces 0.000000
0.000000 assigned to an int produces -150.000000
-150 divided by 100 produces -1.000000
-150 divided by 100 produces -1.500000
(float)-150 divided by 100 produces &f

Process returned 0 (0x0)   execution time : 0.575 s
Press any key to continue.

```

Below the code editor, the status bar shows build logs:

```

Logs & others
CodeBlocks x Search results x Ccc x Build log x Build messages x CppCheck x Fortran info x Close
File Line Message
=====  

== Build file: "no target" in "no project" (compiler: unknown) ===  

== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) =

```

2. Which of the following are invalid variable names? Why?

[Click here to view code image](#)

|                |         |                      |
|----------------|---------|----------------------|
| ✓ Int          | ✗ char  | ✗ 6_05               |
| ✓ Calloc       | ✓ Xx    | ✓ alpha_beta_routine |
| ✓ floating     | ✓ _1312 | ✓ z                  |
| ✓ ReInitialize | ✓ _     | ✗ A\$                |

3. Which of the following are invalid constants? Why?

[Click here to view code image](#)

| 123.456   | 0x10.5  | 0X0G1                               |
|-----------|---------|-------------------------------------|
| 0001      | 0xFFFF  | 123L                                |
| 0Xab05    | 0L      | -597.25 → (-1)1.984128e-005 literal |
| 123.5e2   | .0001   | +12 → (+1)1.984128e-005 literal     |
| 98.6F     | 98.7U   | 17777s → 123.5 Quoted C             |
| 0996      | -12E-12 | 07777                               |
| 1234uL    | 1.2Fe-7 | 15,000 → 98.693890408, 123.5        |
| 1.234L    | 197u    | 100U                                |
| 0XABCDEFL | 0xabcu  | +123                                |

Start here Untitled3.c

```
1 #include <stdio.h>
2 int main (void)
3 {
4     double x=2.55;
5     double result;
6     result=(3*x*x*x)-(5*x*x)+6;
7     printf("for x=%.*f\n",x);
8     printf("the result of 3x^3-5x^2+6 is:%f\n",result);
9
10    return 0;
11
12
13 }
14
15
```

D:\6813134\Untitled3.exe

```
for x=2.55
the result of 3x^3-5x^2+6 is:23.231625

Process returned 0 (0x0) execution time : 0.028 s
Press any key to continue.
```

Logs & others

Code:Blocks Search results Cccc Build log Build messages Cpp

File Line Message

```
==== Build file: "no target" in "no project" (compiler: unknown) ====
==== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s))
```

Start here Untitled3.c

```
13 }
14     printf("Answer = %d\n", x);
15
16 //end 2
17 i = 12258;
18 j = 23;
19 x = i + 1;
20 while (x % j != 0 || x % 2 != 0) {
21     x++;
22 }
23 printf("Answer = %d\n", x);
24
25 //end 3
26 i = 996;
27 j = 4;
28 x = i + 1;
29 while (x % j != 0 || x % 2 != 0) {
30     x++;
31 }
32 printf("Answer = %d\n", x);
33
34 return 0;
35
36
37
38 }
39
```

D:\6813134\Untitled3.exe

```
Answer = 378
Answer = 12282
Answer = 1000

Process returned 0 (0x0) execution time : 0.563 s
Press any key to continue.
```

Logs & others

Code:Blocks Search results Cccc Build log Build messages Cpp

File Line Message

```
==== Build file: "no target" in "no project" (compiler: unknown) ====
==== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s))
```