

**1. What will be the value of x after executing the program?**

```
#include <stdio.h>

void main ( )

{

int x;

x = printf("I See, Sea in C");

printf("\n x= %d" , x);

}
```

**Answer:**

- A) x= 15                      B) x =5  
C) 11                         D) Compile time error
- 

**2. Which of the following is not a valid variable name declaration?**

**Answer:**

- A) int \_a3;                  B) int a\_3;  
C) int 3\_a;                  D) int \_3a;
- 

**3. Variable name resolving (number of significant characters for the uniqueness of variable) depends on \_\_\_\_\_**

**Answer:**

- A) Compiler and linker implementations  
B) Assemblers and loaders implementations  
C) C language  
D) None of the mentioned
- 

**4. What is the output of this C code?**

```
#include <stdio.h>

void main()

{   int a = 3;

    int b = ++a + a++ + --a;
```

```
printf("Value of b is %d", b);  
}
```

**Answer:**

- |                  |       |       |
|------------------|-------|-------|
| A) 10            | B) 11 | C) 5  |
| D) None of these | E) 13 | F) 12 |

---

**5. The precedence of arithmetic operators is (from highest to lowest)?**

**Answer:**

- |                  |                  |
|------------------|------------------|
| A) %, *, /, +, - | B) %, +, /, *, - |
| C) +, -, %, *, / | D) %, +, -, *, / |

---

**6. What is the output of this C code?**

```
#include<stdio.h>  
  
int main()  
{  
  
int x = 1, y= 0 , z= 3;  
  
(x > y ? printf("%d",z) : return x);  
  
return 0;  
}
```

**Answer:**

- |                       |      |          |
|-----------------------|------|----------|
| A) 3                  | B) 0 | E) True  |
| C) Compile time error | D) 1 | F) False |

---

**7. Result of a logical or relational expression in C is \_\_\_\_\_**

**Answer:**

- A) True or False  
B) 0 or 1  
C) 0 if an expression is false and any positive number if an expression is true  
D) None of the mentioned
-

**8. What will be the value of d in the following program?**

```
#include<stdio.h>

int main()
{
    int a = 10 , b = 5 , c = 5;

    int d;

    d = b + c == a;

    printf("%d", d);

    return 0;
}
```

**Answer:**

- |                 |       |       |
|-----------------|-------|-------|
| A) Syntax error | B) 1  | E) 20 |
| C) 5            | D) 10 | F) 4  |

---

**9. Which among the following is NOT a logical or relational operator?**

**Answer:**

- |       |       |
|-------|-------|
| A) != | B) == |
| C)    | D) =  |

---

**10. Comment on the output of this C code?**

```
#include<stdio.h>

int main()
{
    float x = 0.1;

    printf( "%d, " x);

    printf("%f", x);

    return 0;
}
```

**Answer:**

- A) Syntax error                      B) Junk value.100000                      F) 1, 0  
C) 0, 0.100000                      D) 0.1, 0.1                      E) Compiler error
- 

**11. What is the output of this C code?**

```
#include <stdio.h>

int main()
{
    int a = 5, b = -7, c = 0, d;

    d = ++a && ++b || ++c;

    printf ("\n%d%d%d%d", a, b, c, d);

return 0;

}
```

**Answer:**

- A) 6 -6 0 0                      B) 6 -5 0 1                      F) 1 0 5 -6  
C) -6 -6 0 1                      D) 6 -6 0 1                      E) 1 0 -6 6
- 

**12. What is the output of this C code?**

```
#include <stdio.h>

int main()
{
    int x = 2, y = 0;

    int z = (y++) ? y == 1 && x : 0;

    printf ("%d\n", z);

    return 0;

}
```

**Answer:**

- A) Compile time error                      B) 1  
C) Undefined behavior                      D) 0
- 

**13. What is the output of this C code?**

```
#include <stdio.h>

int main()
{
    int a = -5;
    int k = (a++, ++a);
    printf("%d\n", k);
return 0;
}
```

**Answer:**

- A) -3                      B) -7  
C) -6                      D) 7
- 

**14. What is the output of this C code?**

```
#include <stdio.h>

int main()
{
    (1 < 2 ? return 1: return 2);
Return 0; }
```

**Answer:**

- A) returns 1                      B) returns 2  
C) Varies                      D) Compile time error
- 

**15. What is the output of this C code?**

```
#include <stdio.h>

int main()
{
```

```
int x = 2, y = 1;

x *= x + y;

printf("%d\n", x);

return 0;

}
```

**Answer:**

- |                 |                       |
|-----------------|-----------------------|
| A) 5            | B) 6                  |
| C) Syntax Error | D) Compile time error |
- 

**16. What is the output of this C code?**

```
#include <stdio.h>

int main()

{

    int x = 1, y = 0;

    x &&= y;

    printf("%d\n", x);

return 0;

}
```

**Answer:**

- |                       |                       |
|-----------------------|-----------------------|
| A) Compile time error | B) 1                  |
| C) 0                  | D) Undefined behavior |
- 

**17. What is the output of this C code?**

```
#include <stdio.h>

int main()

{

    int x = 2, y = 2;

    x /= x / y;
```

```
printf("%d\n", x);  
  
return 0;  
  
}
```

**Answer:**

- |        |                       |
|--------|-----------------------|
| A) 2   | B) 1                  |
| C) 0.5 | D) Undefined behavior |
- 

**18. What will be the data type of the result of the following operation?**

$(\text{float})a * (\text{int})b / (\text{long})c * (\text{double})d$

**Answer:**

- |          |           |
|----------|-----------|
| A) int   | B) long   |
| C) float | D) double |
- 

**19: Convert 1010101001 from unsigned binary to hexadecimal.**

**Answer:**

- |        |        |
|--------|--------|
| A) 2A9 | B) 2B0 |
| C) 2B6 | D) 2BB |
- 

**20: Convert 2BB from hexadecimal to unsigned binary.**

**Answer:**

- |              |              |
|--------------|--------------|
| A)1110111011 | B)1010111011 |
| C)1010111010 | D)1010101011 |
- 

**21: Find the equivalent octal form of  $105_{16}$ ?**

**Answer:**

- |            |            |
|------------|------------|
| A) $40_8$  | B) $45_8$  |
| C) $404_8$ | D) $405_8$ |
- 

**22: Convert 100110101 from unsigned binary to hexadecimal?**

**Answer:**

- |        |        |
|--------|--------|
| A) 133 | B) 134 |
| C) 135 | D) 136 |
-

**23. What is the output of this C code?**

```
#include <stdio.h>

void main()

{

    int k = 8;

    int x = 0 == 1 && k++;

    printf("%d%d\n", x, k);

}
```

**Answer:**

- A) 0 9                      B) 0 8  
C) 1 8                      D) 1 9
- 

**24. What is the output of this C code?**

```
#include <stdio.h>

int main()

{

    int x = 4, y = 4;

    x &&= y;

    printf("%d\n", x);

}
```

**Answer:**

- A) Compile time error      B) 1  
C) 0                              D) Undefined behavior
- 

**25. What is the type of the below assignment expression if x is of type float, y is of type int?**

y = x + y;



**Answer:**

- |  |           |
|--|-----------|
| A) int   | B) float  |
| C) there is no type for an assignment expression | D) double |
- 

**26. What is the output of this C code?**

```
#include <stdio.h>

void main()
{
    int a = 1, b = 2;
    a += b -= a;
    printf("%d %d", a, b); }
```

**Answer:**

- |        |        |
|--------|--------|
| A) 1 1 | B) 1 2 |
| C) 2 1 | D) 2 2 |
- 

**27. Which of the following is an invalid assignment operator?**

**Answer:**

- |             |                          |
|-------------|--------------------------|
| A) a %= 10; | B) a /= 10;              |
| C) a  = 10; | D) None of the mentioned |

### Answer Question:

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	
D	C	C		E	A	C	B	B	D
Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19
B	D	D	A	D	A	A	A	D	A
Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27		
D	D	B	B	A	D	C	D		

Q4.

```

1  #include <stdio.h>
2  void main()
3  {
4      int a = 3;
5      int b = ++a + a++ + --a;
6      printf("Value of b is %d", b);
7  }

```

C:\Users\h\Documents\cv\cx.exe

Value of b is 13  
Process returned 16 (0x10) execution time : 0.016 s  
Press any key to continue.

Q6.

```

1  #include<stdio.h>
2  int main()
3  {
4      int x = 1, y = 0, z = 3;
5      (x > y ? printf("%d", z) : return x);
6      return 0;
7  }
8

```

Build messages

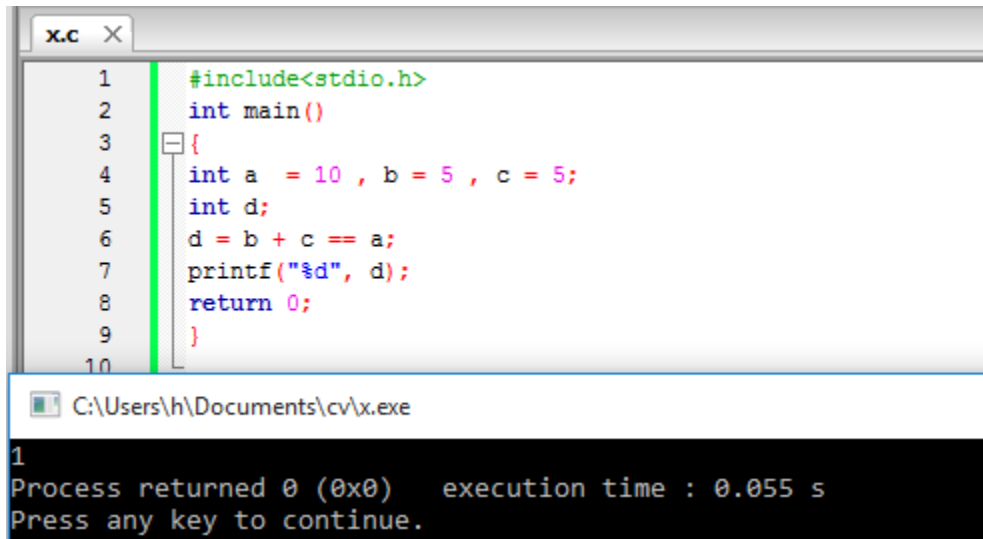
==== Build file: "no target" in "no project" (compiler: unknown) ====

In function 'main':

C:\Users\h\Doc... 5 error: expected expression before 'return'

==== Build failed: 1 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ====

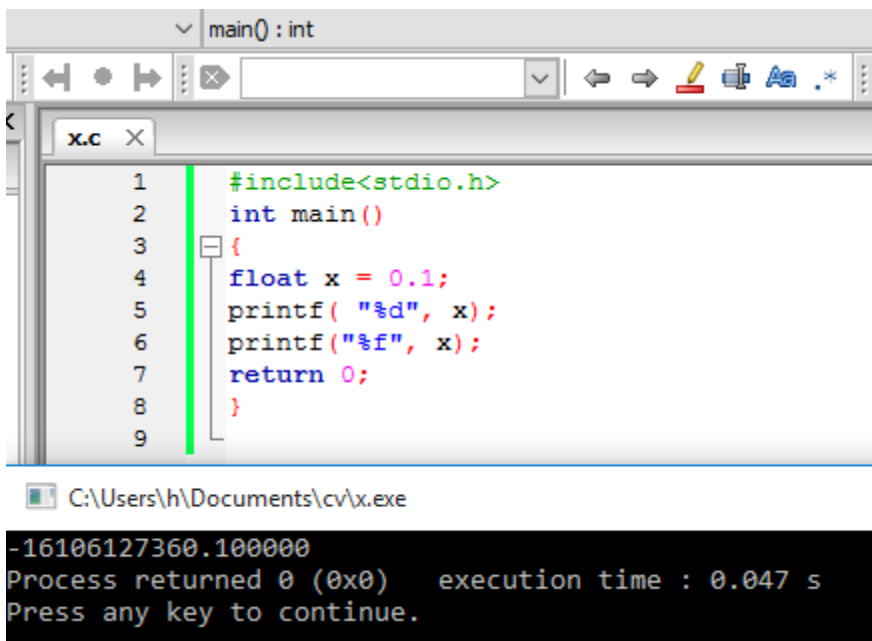
Q8.



```
x.c X
1  #include<stdio.h>
2  int main()
3  {
4  int a = 10 , b = 5 , c = 5;
5  int d;
6  d = b + c == a;
7  printf("%d", d);
8  return 0;
9  }
10

C:\Users\h\Documents\cv\x.exe
1
Process returned 0 (0x0)   execution time : 0.055 s
Press any key to continue.
```

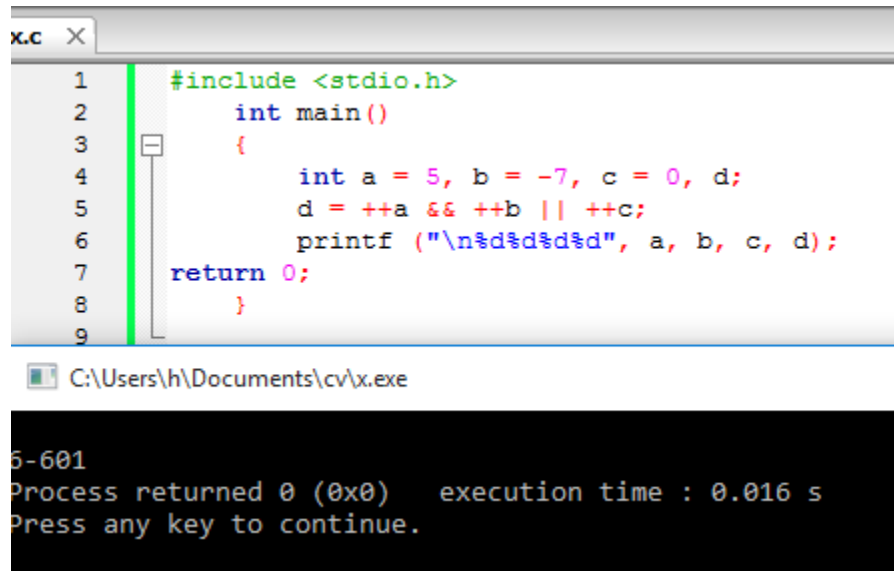
Q10.



```
main() : int
x.c X
1  #include<stdio.h>
2  int main()
3  {
4  float x = 0.1;
5  printf( "%d", x);
6  printf("%f", x);
7  return 0;
8  }
9

C:\Users\h\Documents\cv\x.exe
-16106127360.100000
Process returned 0 (0x0)   execution time : 0.047 s
Press any key to continue.
```

Q11.

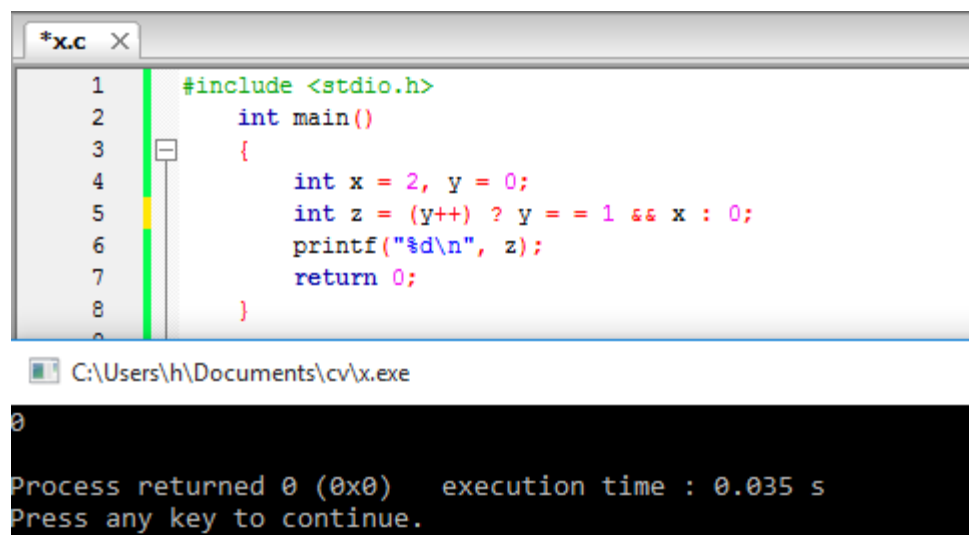


```
x.c X
1  #include <stdio.h>
2  int main()
3  {
4      int a = 5, b = -7, c = 0, d;
5      d = ++a && ++b || ++c;
6      printf ("\n%d%d%d%d", a, b, c, d);
7  return 0;
8  }
9

C:\Users\h\Documents\cv\x.exe

5-601
Process returned 0 (0x0)   execution time : 0.016 s
Press any key to continue.
```

Q12.

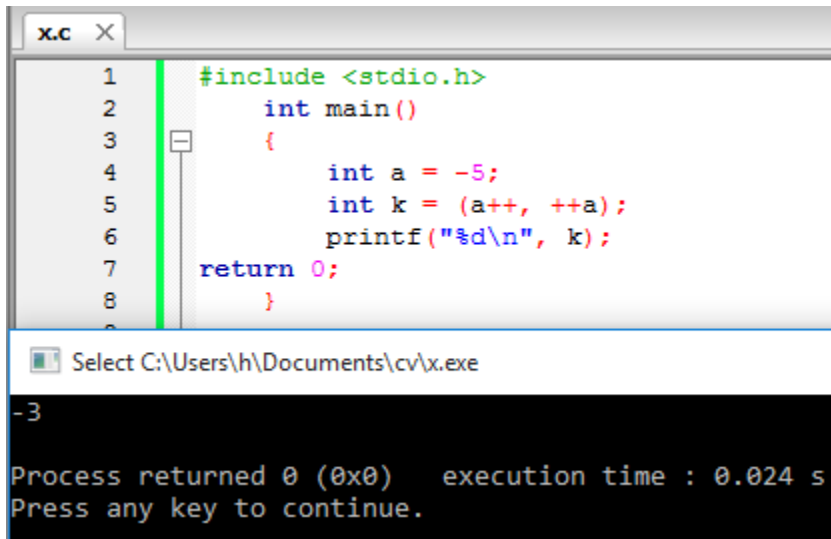


```
*x.c X
1  #include <stdio.h>
2  int main()
3  {
4      int x = 2, y = 0;
5      int z = (y++) ? y = 1 && x : 0;
6      printf ("%d\n", z);
7      return 0;
8  }
9

C:\Users\h\Documents\cv\x.exe

0
Process returned 0 (0x0)   execution time : 0.035 s
Press any key to continue.
```

Q13.



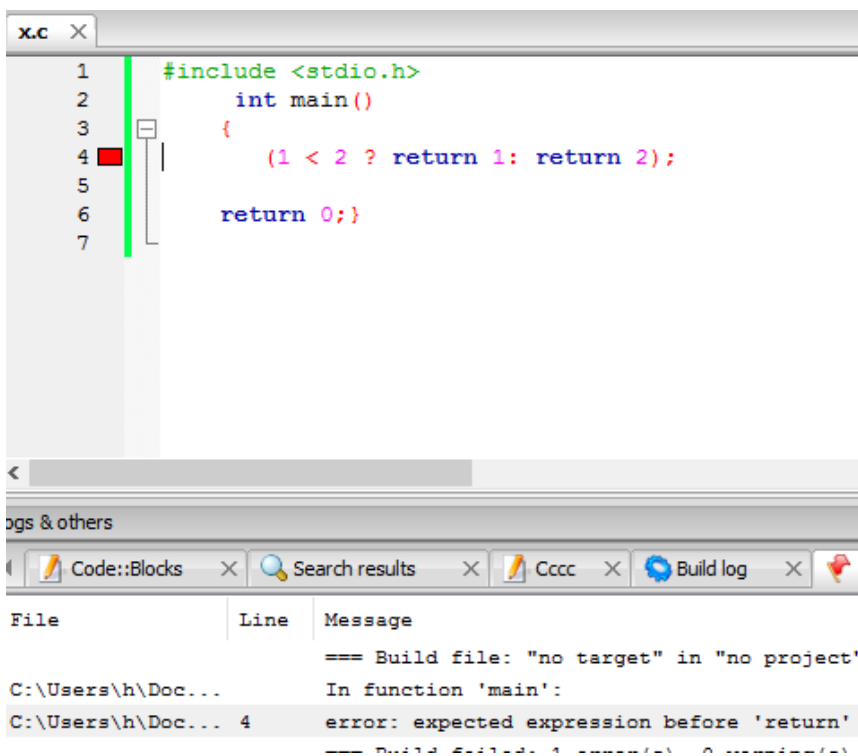
```
x.c X
1  #include <stdio.h>
2  int main()
3  {
4      int a = -5;
5      int k = (a++, ++a);
6      printf("%d\n", k);
7  return 0;
8  }
```

Select C:\Users\h\Documents\cv\x.exe

-3

Process returned 0 (0x0) execution time : 0.024 s  
Press any key to continue.

Q14.



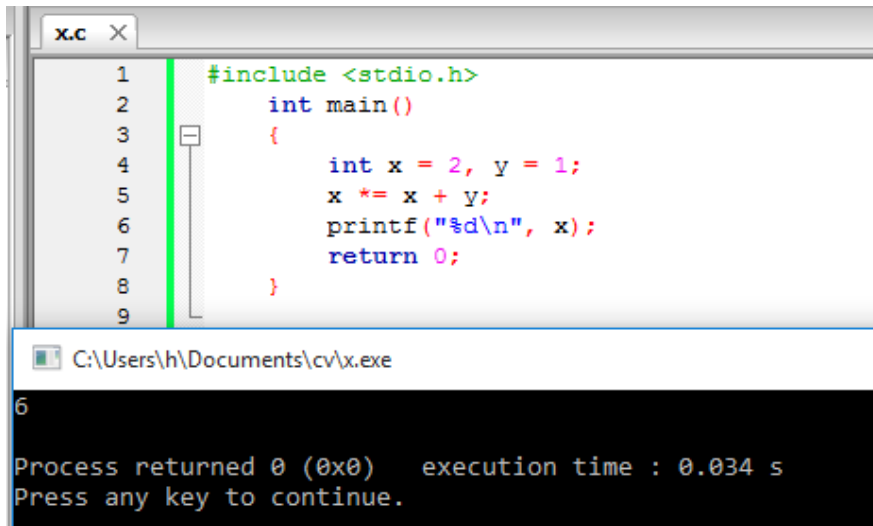
```
x.c X
1  #include <stdio.h>
2  int main()
3  {
4      (1 < 2 ? return 1: return 2);
5
6      return 0;
7  }
```

logs & others

Code::Blocks Search results Cccc Build log

File	Line	Message
		=== Build file: "no target" in "no project"
C:\Users\h\Doc...		In function 'main':
C:\Users\h\Doc...	4	error: expected expression before 'return'
		=== Build failed: 1 error(s), 0 warning(s) ===

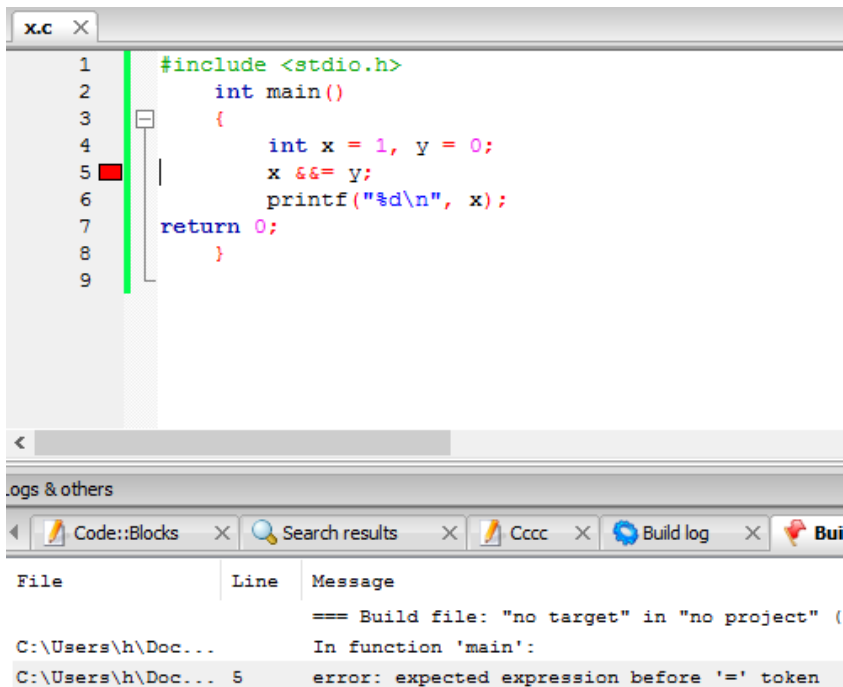
Q15.



```
x.c X
1  #include <stdio.h>
2  int main()
3  {
4      int x = 2, y = 1;
5      x *= x + y;
6      printf("%d\n", x);
7      return 0;
8  }
9

C:\Users\h\Documents\cv\x.exe
6
Process returned 0 (0x0)   execution time : 0.034 s
Press any key to continue.
```

Q16.

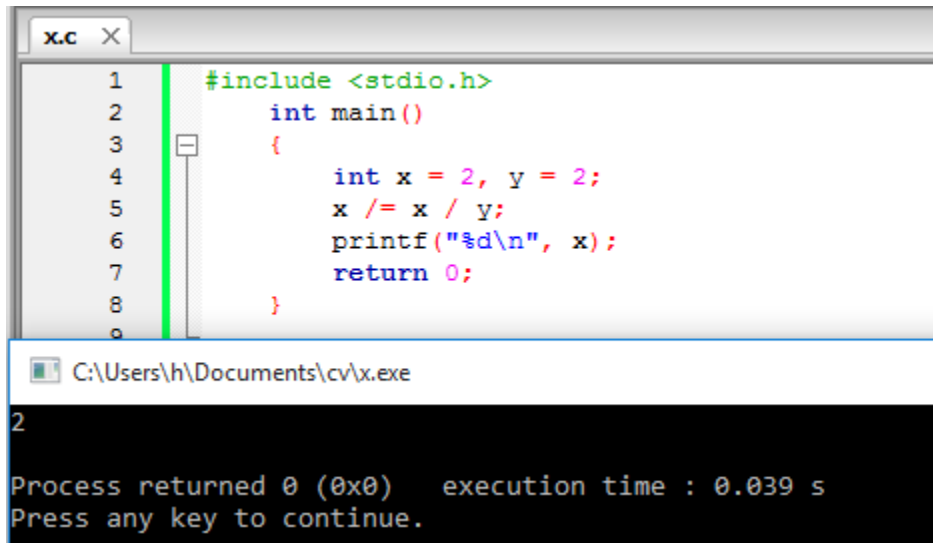


```
x.c X
1  #include <stdio.h>
2  int main()
3  {
4      int x = 1, y = 0;
5      x &&= y;
6      printf("%d\n", x);
7      return 0;
8  }
9

logs & others
Code::Blocks X Search results X Cccc X Build log X Bui

File      Line  Message
==== Build file: "no target" in "no project" (
C:\Users\h\Doc... In function 'main':
C:\Users\h\Doc... 5  error: expected expression before '=' token
```

Q17.



```
x.c X
1  #include <stdio.h>
2      int main()
3      {
4          int x = 2, y = 2;
5          x /= x / y;
6          printf("%d\n", x);
7          return 0;
8      }
9
C:\Users\h\Documents\cv\x.exe
2
Process returned 0 (0x0)   execution time : 0.039 s
Press any key to continue.
```

Q23.

$$105_{16} = (1 * 16^2) + (0 * 16^1) + (5 * 16^0)$$

$$= 1 * 256 + 0 * 16 + 5 * 1$$

$$= 256 + 0 + 5$$

$$= 261(\text{Decimal form})$$

Now we have to convert this decimal to octal

$$8 \overline{) 261}$$

$$8 \overline{) 32} \text{ -- } 5$$

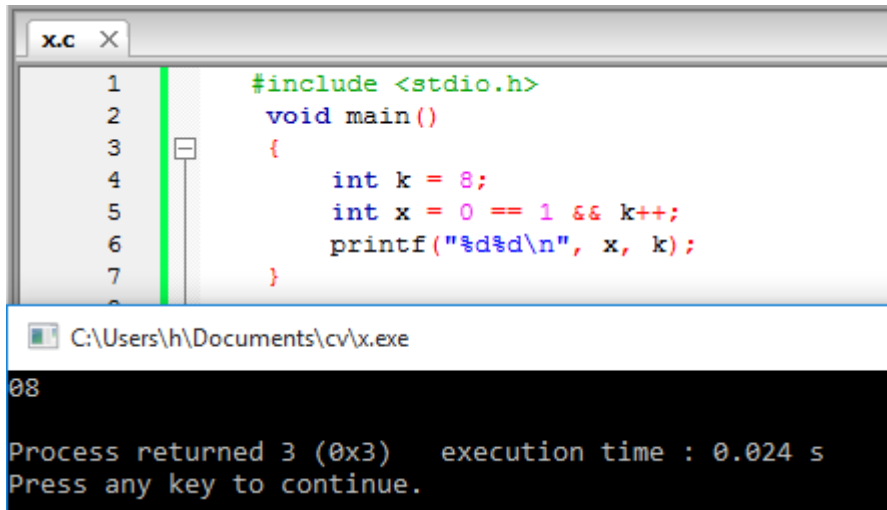
$$8 \overline{) 4} \text{ -- } 0$$

$$8 \overline{) 0} \text{ -- } 4$$

The octal number is  $405_8$

$$105_{16} = 405_8$$

Q23.

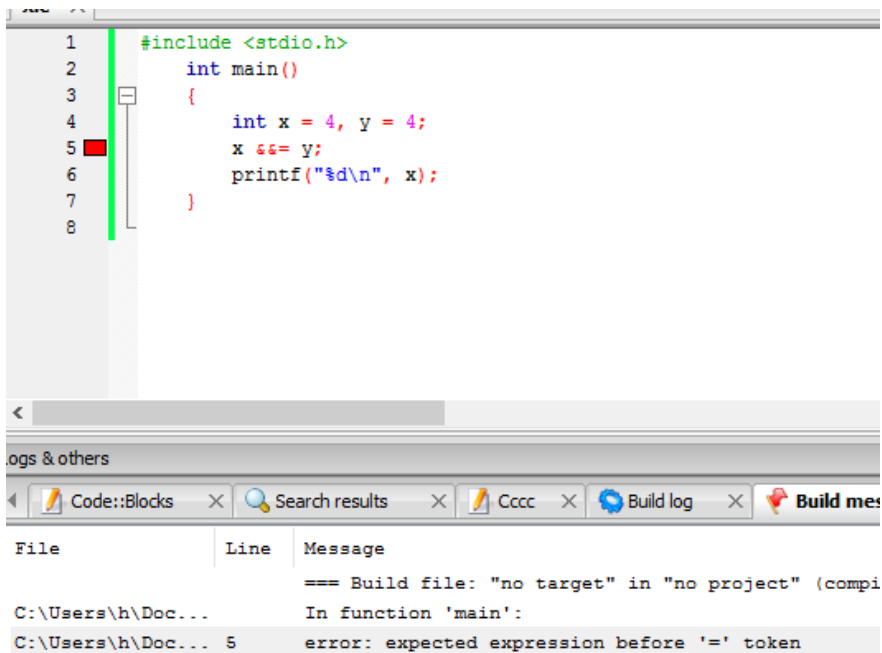


```
1  #include <stdio.h>
2  void main()
3  {
4      int k = 8;
5      int x = 0 == 1 && k++;
6      printf("%d%d\n", x, k);
7  }
```

08

Process returned 3 (0x3) execution time : 0.024 s  
Press any key to continue.

Q26.



```
1  #include <stdio.h>
2  int main()
3  {
4      int x = 4, y = 4;
5      x &&= y;
6      printf("%d\n", x);
7  }
```

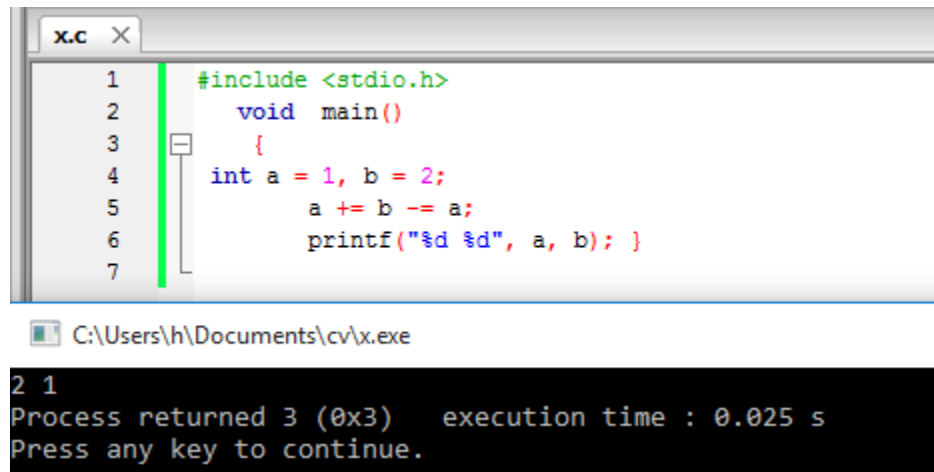
logs & others

Code::Blocks Search results Cccc Build log Build mes

File	Line	Message
		=== Build file: "no target" in "no project" (compiling)
C:\Users\h\Doc...		In function 'main':
C:\Users\h\Doc...	5	error: expected expression before '=' token



Q26.



```
x.c X
1  #include <stdio.h>
2      void main()
3      {
4          int a = 1, b = 2;
5          a += b -= a;
6          printf("%d %d", a, b); }
7

C:\Users\h\Documents\cv\x.exe
2 1
Process returned 3 (0x3)   execution time : 0.025 s
Press any key to continue.
```