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main.c

```c
 2
 3                               Online C Compiler.
 4                    Code, Compile, Run and Debug C program online.
 5    Write your code in this editor and press "Run" button to compile and execute it.
 6
 7    ***********************************************************************/
 8
 9    #include <stdio.h>
10    int main()
11  {
12      int a = 10, b = 100;
13      float c = 10.5, d = 100.5;
14      printf("++a = %d \n", ++a);
15      printf("--b = %d \n", --b);
16      printf("++c = %f \n", ++c);
17      printf("--d = %f \n", --d);
18      return 0;
19  }
20
21
```

input

```
++a = 11
--b = 99
++c = 11.500000
--d = 99.500000
```

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```c
#include<stdio.h>
int main()
{

  int a = 5, b = 5, c = 10;

  printf("%d == %d is %d \n", a, b, a == b);
  printf("%d == %d is %d \n", a, c, a == c);
  printf("%d > %d is %d \n", a, b, a > b);
  printf("%d > %d is %d \n", a, c, a > c);
  printf("%d < %d is %d \n", a, b, a < b);
  printf("%d < %d is %d \n", a, c, a < c);
  printf("%d != %d is %d \n", a, b, a != b);
  printf("%d != %d is %d \n", a, c, a != c);
  printf("%d >= %d is %d \n", a, b, a >= b);
  printf("%d >= %d is %d \n", a, c, a >= c);
  printf("%d <= %d is %d \n", a, b, a <= b);
  printf("%d <= %d is %d \n", a, c, a <= c);

  return 0;

}
```

input

```
...Program finished with exit code 0
Press ENTER to exit console.
```

```c
#include<stdio.h>
int main()
{

    int a = 5, b = 5, c = 10;
```

```
5 == 5 is 1
5 == 10 is 0
5 > 5 is 0
5 > 10 is 0
5 < 5 is 0
5 < 10 is 1
5 != 5 is 0
5 != 10 is 1
5 >= 5 is 1
5 >= 10 is 0
5 <= 5 is 1
5 <= 10 is 1


...Program finished with exit code 0
Press ENTER to exit console.
```

```c
#include <stdio.h>
int main()
{
  int a = 5, b = 5, c = 10, result;
  result = (a == b) && (c > b);
  printf("(a == b) && (c > b) is %d \n", result);
  result = (a == b) && (c < b);
  printf("(a == b) && (c < b) is %d \n", result);
  result = (a == b) || (c < b);
  printf("(a == b) || (c < b) is %d \n", result);
  result = (a != b) || (c < b);
  printf("(a != b) || (c < b) is %d \n", result);
  result = !(a != b);
  printf("!(a != b) is %d \n", result);
  result = !(a == b);
  printf("!(a == b) is %d \n", result);
  return 0;
}
```

input
```
(a == b) && (c > b) is 1
(a == b) && (c < b) is 0
(a == b) || (c < b) is 1
(a != b) || (c < b) is 0
!(a != b) is 1
!(a == b) is 0
```

```c
   Write your code in this editor and press "Run" button to compile and execute it.

   ***********************************************************************/

#include <stdio.h>
int main()
{
   int a = 5, b = 5, c = 10, result;
   result = (a == b) && (c > b);
   printf("(a == b) && (c > b) is %d \n", result);
   result = (a == b) && (c < b);
   printf("(a == b) && (c < b) is %d \n", result);
   result = (a == b) || (c < b);
   printf("(a == b) || (c < b) is %d \n", result);
```

input

```
(a == b) && (c > b) is 1
(a == b) && (c < b) is 0
(a == b) || (c < b) is 1
(a != b) || (c < b) is 0
!(a != b) is 1
!(a == b) is 0


...Program finished with exit code 0
Press ENTER to exit console.
```

```
/*
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*******************************************************************************/

#include<stdio.h>
int main() {
    int intType;
    float floatType;
    double doubleType;
    char charType;

    // sizeof evaluates the size of a variable
    printf("Size of int: %zu bytes\n", sizeof(intType));
    printf("Size of float: %zu bytes\n", sizeof(floatType));
    printf("Size of double: %zu bytes\n", sizeof(doubleType));
    printf("Size of char: %zu byte\n", sizeof(charType));

    return 0;
}
```

```
Size of int: 4 bytes
Size of float: 4 bytes
Size of double: 8 bytes
Size of char: 1 byte
```

```c
/****************************************************************************
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Write your code in this editor and press "Run" button to compile and execute it.

*****************************************************************************/

#include <stdio.h>

int main() {
    int a,b,x;
    scanf("%d %d",&a,&b);
    x=(a>b)? a:b;
    printf("%d is larger",x);
    return 0;
}
```

```
input
12
34
34 is larger

...Program finished with exit code 0
Press ENTER to exit console.
```

Working

$22 = 10110$

$22 << 1 = 101100 = 44$

$22 << 2 = 1011000 = 88$

$22 >> 1 = 1011 = 11$

$22 >> 2 = 101 = 5$

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main.c

```c
 4              Code, Compile, Run and Debug C program online.
 5    Write your code in this editor and press "Run" button to compile and execute it.
 6
 7    ***********************************************************************************/
 8
 9    #include <stdio.h>
10
11    int main() {
12        int x,num=22;
13        x=num<<1;
14        printf("%d \n",x);
15        x=num<<2;
16        printf("%d \n",x);
17        x=num>>1;
18        printf("%d \n",x);
19        x=num>>2;
20        printf("%d \n",x);
21        return 0;
22    }
23
```

input

```
44
88
11
5
```

```c
/*******************************************************************

                    Online C Compiler.
        Code, Compile, Run and Debug C program online.
Write your code in this editor and press "Run" button to compile and execute it.

*******************************************************************/

#include <stdio.h>

int main() {
    int a,b,c,x;
    scanf("%d %d %d",&a,&b,&c);
    x=(a>b) ? (a>c ? a:c):(b>c ? b:c);
    printf("%d is larger",x);
    return 0;
}
```

```
12
13
15
15 is larger

...Program finished with exit code 0
```