

Branching (Decision-making)

if ()

→ int, char, float, long, double, etc.

switch ()

→ int, char, long, bool, String

int a;
if (a == 1) → statement evaluated
to true or false

True [Console.WriteLine ("hello world.\n");
:
}

not
True →
(false)

Comparison operators

$==$ equal to

$<$ less than

$>$ greater than

$<=$ less than or equal to

$>=$ greater than or equal to

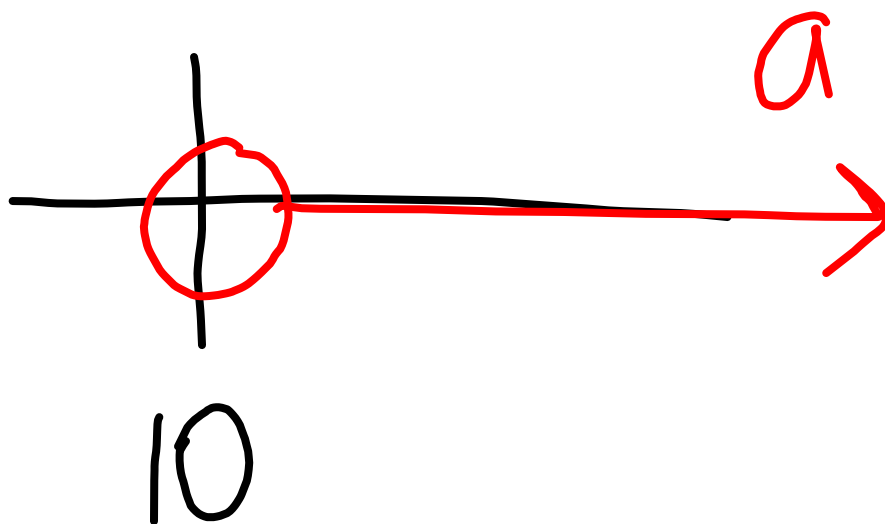
\neq $!=$ not equal to

do not use

$$a < 0$$

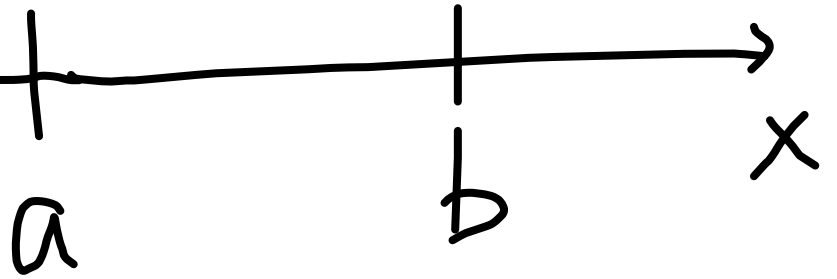
$$a > 10$$

$$10 < a$$



if (a < b)

TRUE



FALSE

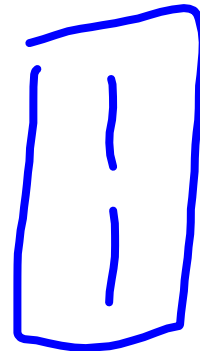


if (a < 0 || 10 < a)

{



}



← keyboard

```
int choice;  
if ( choice < 1 || 11 < choice )  
{  
    Console.WriteLine("incorrect input\n");  
}
```

```
if ( a == b )  
{ Console.WriteLine("a equals b\n");  
  
}  
else  
{ Console.WriteLine("a is not equal to b\n");  
  
}
```

```
if ( a < b )
```

```
{  
    Console.WriteLine("a is less than b.\n");
```

```
}
```

```
else if ( b < a )
```

```
{  
    Console.WriteLine("b is less than a.\n");
```

```
}
```

```
else
```

```
{  
    Console.WriteLine("a equals b.\n");
```

```
}
```



```
if (
{
}
else if (
{
}
else if (
{
}
else
{
}
}
```

```
char a, b;
```

```
if (a == b)
```

```
if (a == '<')
```

```
if (a == 'g')
```

```
if (a == 'l')
```

```
float a, b;
```

```
if (a == b)
```

```
if (a == 3.0)
```

```
if (a == 4.5)
```

do not check
equality with
float, double