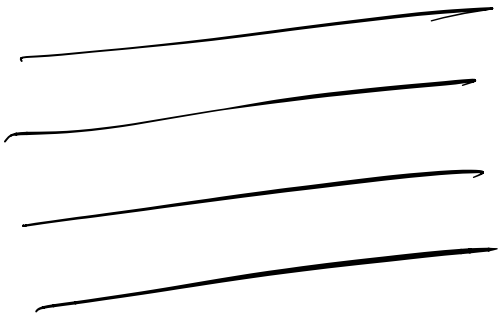
TCH009 - 02 - Cours 3

+ 3 tentatives

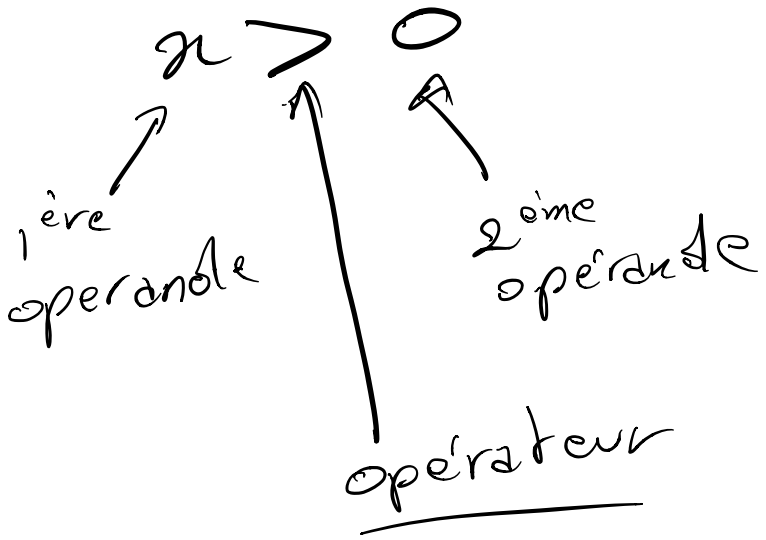


if (x > 0)
{

}

$x > 0$

$x + 2$



0 : faux
1 : vrai

$x > 0$

↳ 0 : faux

Toute autre : vrai valeur

2572

Φ : faux

une autre valeur : vrai

```
if (Φ)
{
  ⟹ printf("Allo");
}
```

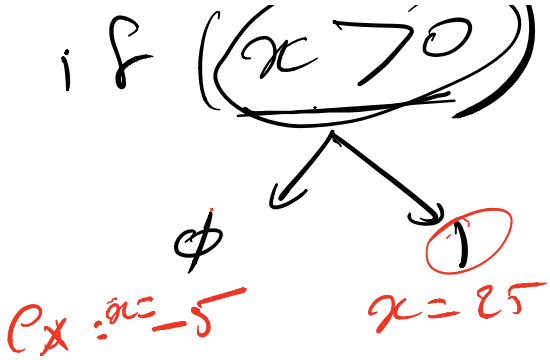
```
if ( 5 )
{
    printf ("Bonjour !");
}
```

```
if ( x + 5 )
{
    printf ("Allo !");
}
```

3 vrai ou faux

$x = -2$

$x = -5$



---

x différent de -5

if (x + 5)

}

}

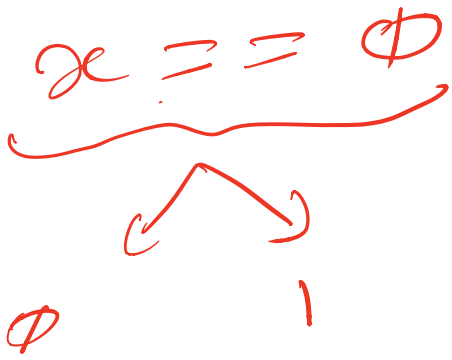
- x = 25

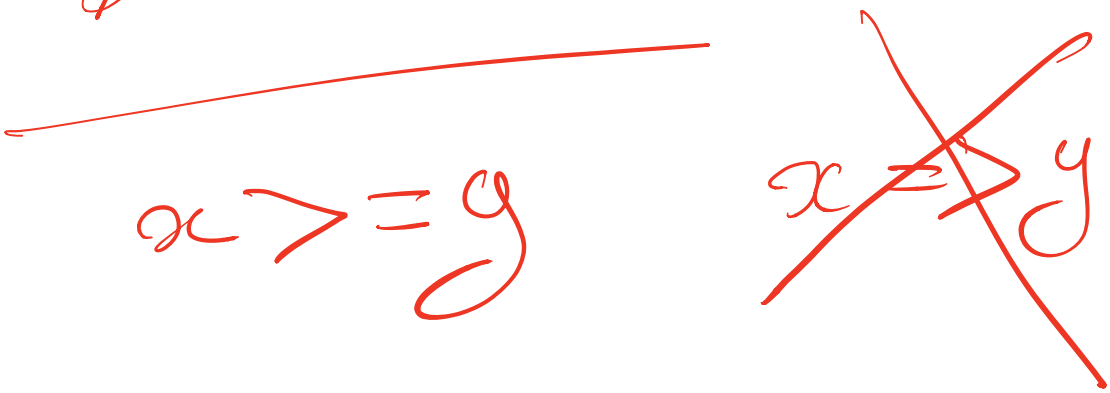
if (x = 2)

{ printf ("Bonjour !");

}

```
x=2;
2
x=25;
if(x=0)
{
    printf("Allo");
}
```


x == Φ
Φ
1


x >= y
x >= y


x <= y

x >= y sup. égal

x <= y inf. égal.

if (x != -5)

{

}

!= different

---

if (x + 5)

{

}

```
}
if (x != -5)
{
    ==
}
```

```
y = 5, z = 8
x = (y > 2) + (z < 5);
```

1 0

```
if (x == 2)
{
    ==
```

}

x = y==2 + z>3 + k<0;

x=0

x > 0 →

if (x>0 && y<0)

{

}

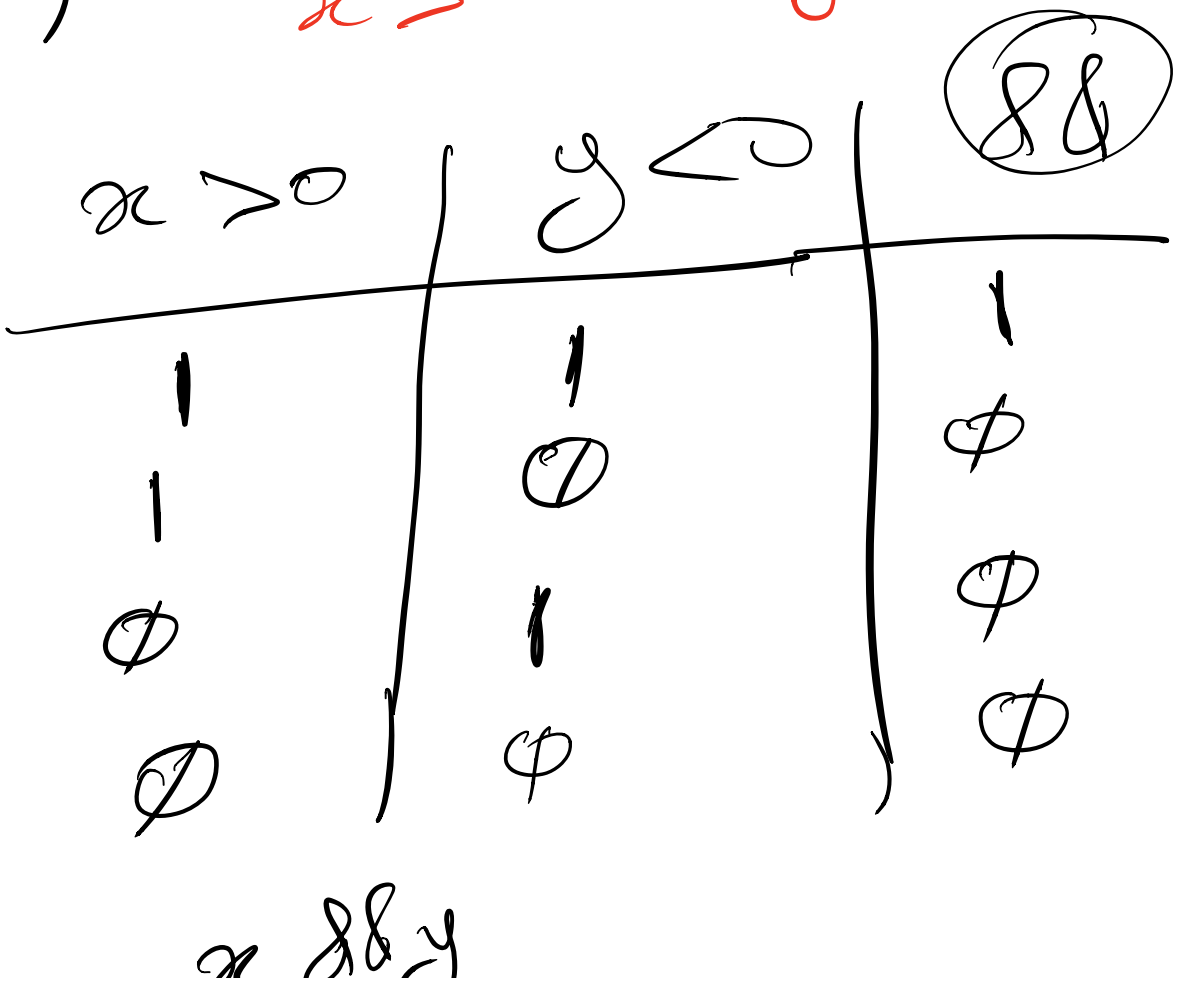
else

{

≡≡≡

}

$x > 0$ && $y < 0$



x && y

x	y	x && y
1	1	1
1	ϕ	ϕ
ϕ	1	ϕ
ϕ	ϕ	ϕ

$x = -5$

if ($\underbrace{0 < x < 200}$)

{ $\underbrace{\phi \quad < 200}$

1

}

$x = -5$

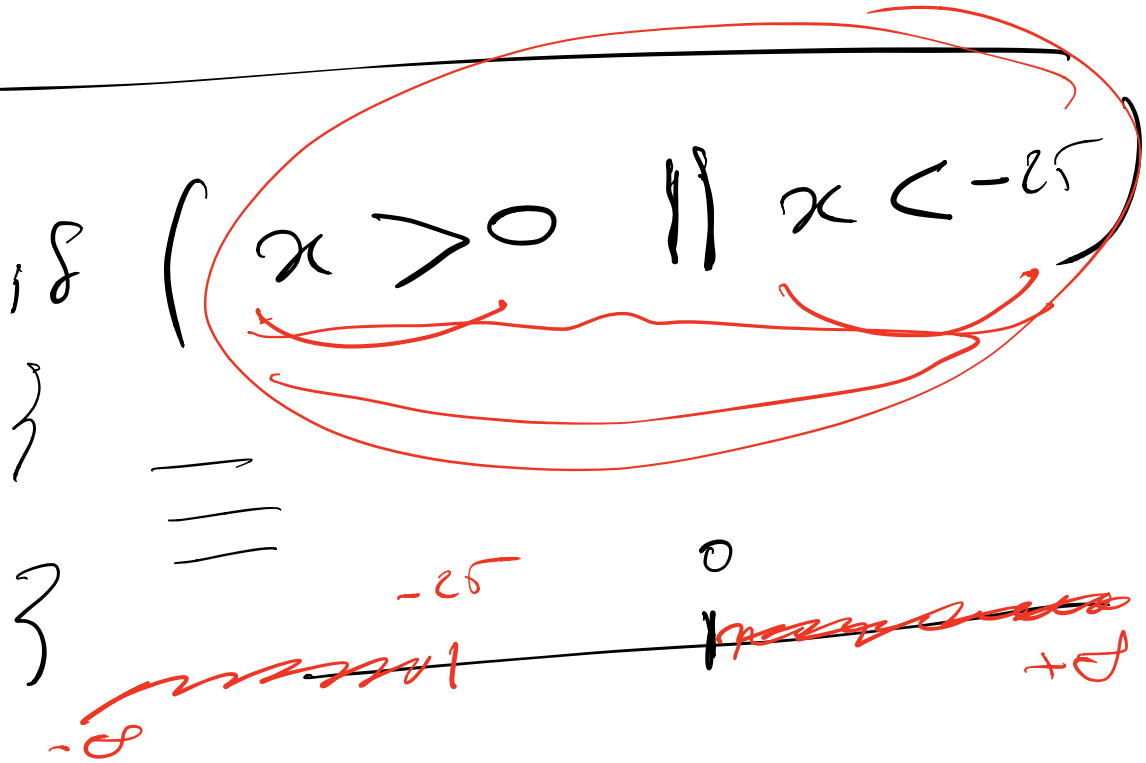
if ($\underbrace{x \geq 0}$ && $\underbrace{x < 200}$)

ϕ 1

ϕ

```
if (nb1 > nbc && nb1 > nb3)
{
    max = nb1;
}
else if (nb2 >
```

```
if (x > 0 || x < -25)
{
}
else
{
}
```



$x > 0$ || $y < -25$

$x > 0$	$y < -25$	||
1	1	1	
1	Φ	1	
Φ	1	1	
Φ	Φ	Φ	

! Not

$\underbrace{!(x > 0)}$ Vrai si $x > 0$ est faux

if (! (x > 0))
{
}

---

int x;

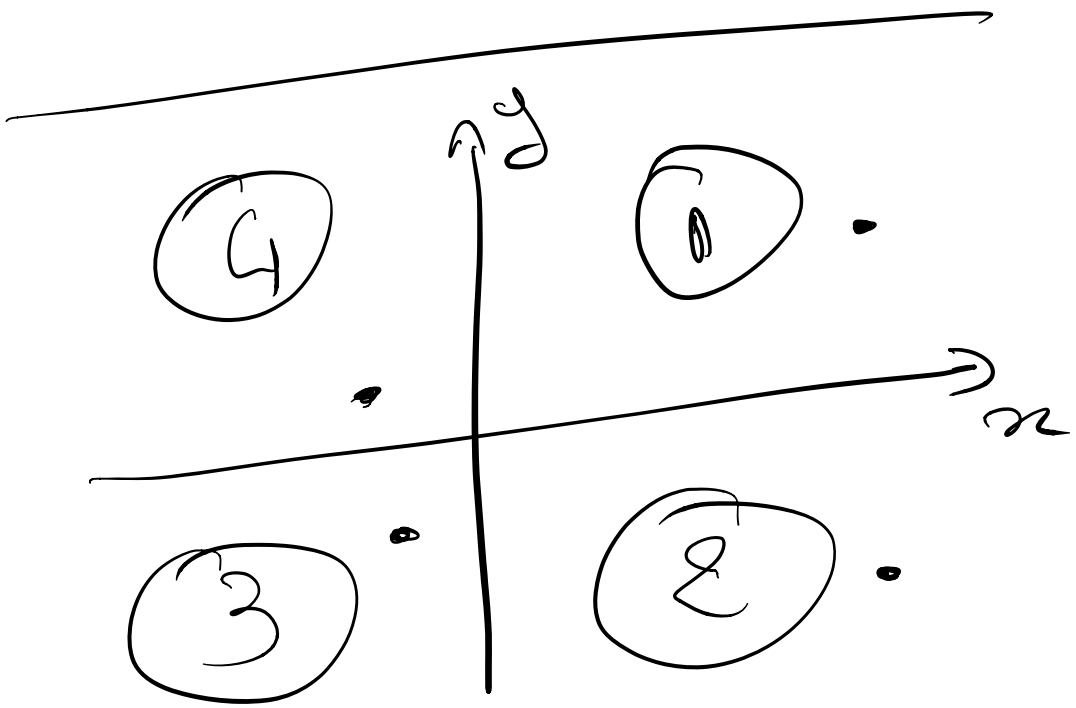
if (! x)
{
}

! x → vrai si x == 0

x ∅

if (x == 0)
{

}



x	y	$x \cdot y$
1	1	1
1	0	0
0	1	0
0	0	0

x	y	$x + y$
1	1	1
1	0	1
0	1	1
0	0	0

x	$\bar{x}$
0	1
1	0

$x = 23$

$y = 16$

$z = x \& y;$

$\hookrightarrow z = 16$

x	0	0	0	1	0	1	1	1
y	0	0	0	1	0	0	0	0
x & y	0	0	0	1	0	0	0	0 = 16
x | y	0	0	0	1	0	1	1	1 = 23

$x = 23$

$y = 24$

x: 0 0 0 1 0 1 1 1

y: 0 0 0 1 1 0 0 0

$x \mid y$ — 0 0 0 1 1 1 1 1

$$x \mid y = 31$$

$\sim x$

$x = 16$

x: 0 0 0 1 0 0 0 0

$\sim x$: 1 1 1 0 1 1 1 1

$255 - 16 = 239$

$x = 16$

$\sim x = 239$

$$
\begin{array}{r}
10011101 \\
\& \quad 00000100 \\
\hline
00000100
\end{array}
$$