



not easy to read $!((x > 10) \&\& (y < 5))$

negate

switch

negate

$(!(x > 10) || !(y < 5))$

simplify

simplify

readable

$(x \leq 10) || (y \geq 5)$

all conditions
are equivalent

```
int x = 5;
```

```
if (!x > 10)
```

$\boxed{1} \rightarrow !x \rightarrow !5 \rightarrow \text{false} \rightarrow 0$

$\boxed{2} \rightarrow 0 > 10 \rightarrow \text{false}$