10

x

$x \geq 1 \bigcap x \leq 5$

NO   SI

$1 \leq x \leq 5$

INFO: &&

1   5 x

NO   NO

SI

NO: $x < 1 \bigcup x > 5$

INFO: ||

$1 \le x \le 5 \implies$ (SI) $\underline{x \ge 1}$ AND $\underline{x \le 5}$

$\Downarrow$ NOT

(NO) $x < 1$ $\|$ $x > 5$