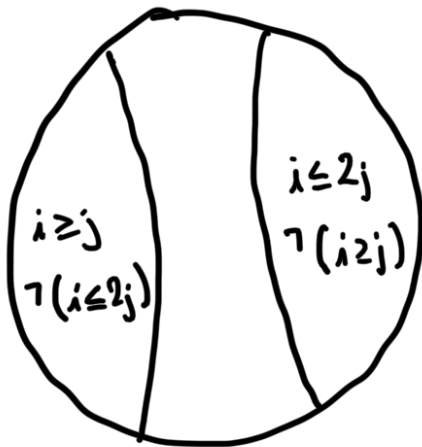$$L_q = \{ a^i b^j \mid \underbrace{i \geq j}_{L_{q1}} \vee \underbrace{i \leq 2j}_{L_{q2}} \}$$

$$S \to X \mid Y$$
$$X \to aXb \mid aX \mid \lambda$$
$$Y \to aaYb \mid aYb \mid Yb \mid \lambda$$

Solución
ambigua

$i \geq j$ ✓

$i < j \Rightarrow i \leq 2j$

$\Downarrow$

$i < j + 0 \Rightarrow i \leq j + j = 2j$

$$i, j \geq 0$$
$$\underline{i \geq j} \;\textcircled{V}\; \underline{i < 2j}$$

$$\begin{cases} S \to aX \mid Y \\ Y \to bY \mid \lambda \end{cases}$$