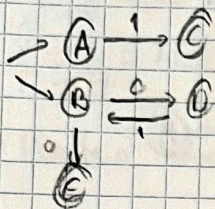


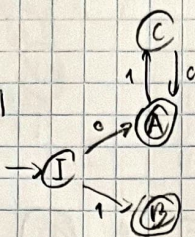
Task	2021
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$$1. (01) 0 + 1$$

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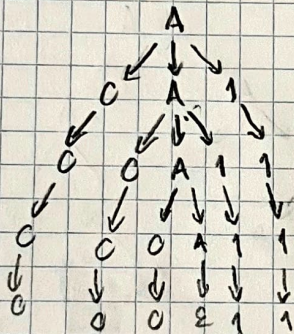
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$$2. L = \{0^i 1^j \mid i \geq j\}$$

Al é uma linguagem não regular porque é necessária uma memória para (i,j)

$$\begin{array}{l} 6) \quad A \rightarrow OA \\ \quad \quad A \rightarrow OA \\ \quad \quad A \rightarrow E \end{array}$$
$$G_1 = (\{A\}, \{0, 1\}, A, \{A \rightarrow 0A, A \rightarrow 1A, A \rightarrow \epsilon\})$$

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d) q	α	γ	q'	S'
q_1	ϵ	A	q_1	$[0, A, 1]$
q_1	ϵ	A	q_1	$[0, A]$
q_1	ϵ	A	q_1	$[]$
q_1	0	$[0]$	q_1	$[]$
q_1	1	$[1]$	q_1	$[]$

e_1	$(q_1, 00011, [A])$
	$(q_1, 00011, [0, A, 1])$
	$(q_1, 0011, [A, 1])$
	$(q_1, 0011, [0, A, 1, 1])$
	$(q_1, 011, [A, 1, 1])$
	$(q_1, 011, [0, A, 1, 1])$
	$(q_1, 11, [A, 1, 1])$
	$(q_1, 11, [E, 1, 1])$
	$(q_1, 11, [1, 1])$
	$(q_1, 1, [1])$
	$(q_1, \epsilon, [1])$