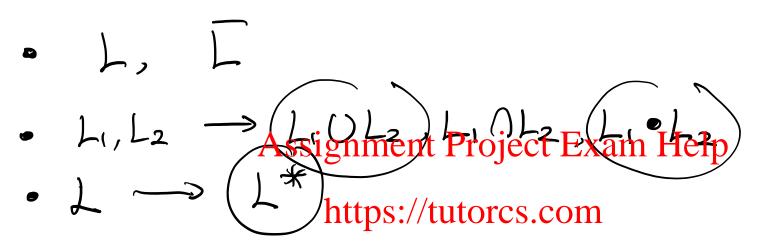
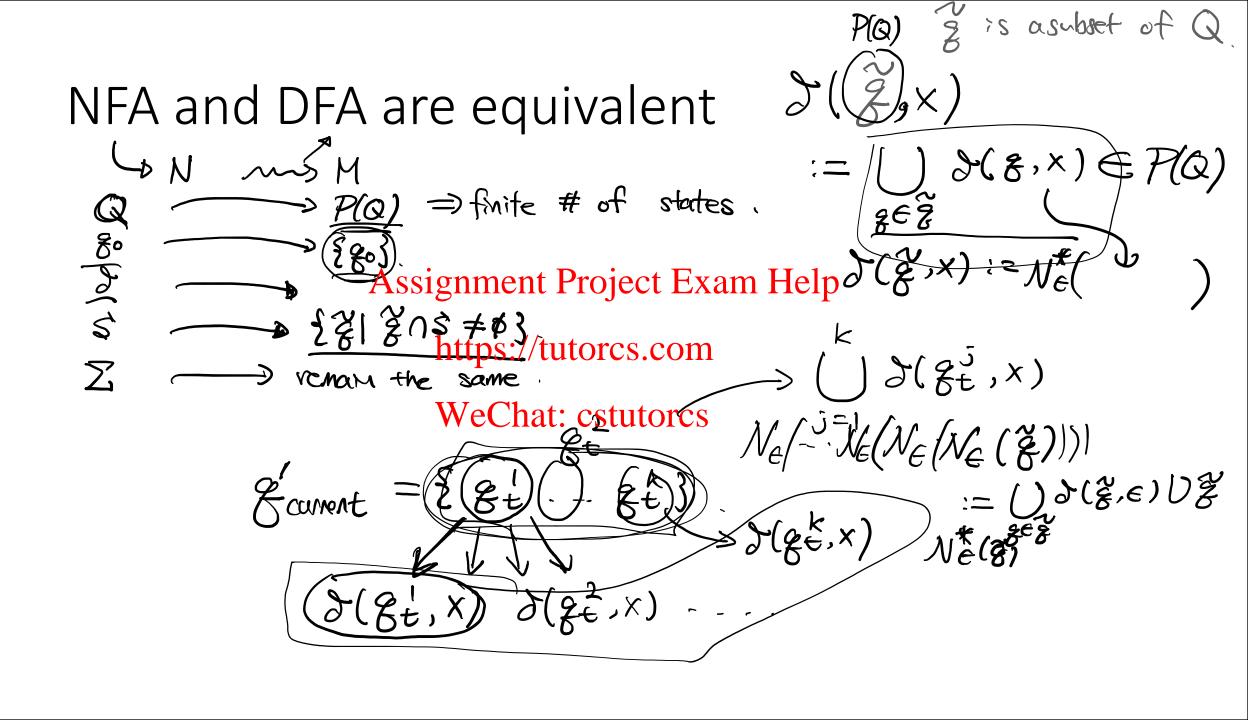
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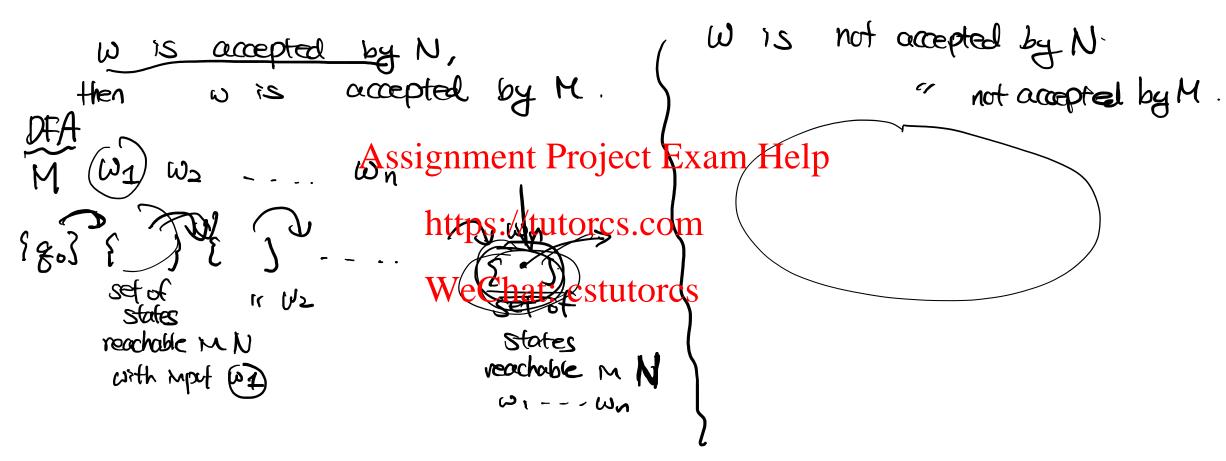
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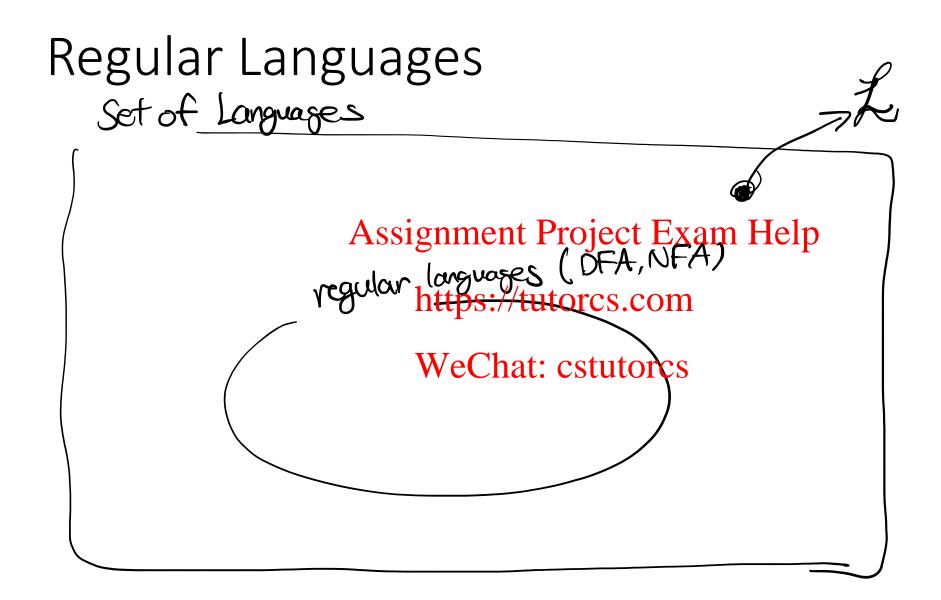
Recap: Regular closed under ...





Proof Ctd





But are all languages regular? (Diagram)

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Runtime for NFA?

$$\leq |Q| \cdot n = O(n)$$

$$\widetilde{fm^{t}} \text{ Assignment Project Exam Help}$$

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How to show that a language is not regular?

• EX) same number of 0's and 1's.

d ω∈ εοι13 Hassighmant Project ExamyHelp

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Pumping Lemma

• If L is regular, then there is a number p where if s is any string in A of length at least p, then s may be divided into three pieces s = xyz;

• For each i, xy^iz is also in L

• y is non empty

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xy is less than p

What is the intuition?

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Pigeonhole Principle (PHP)

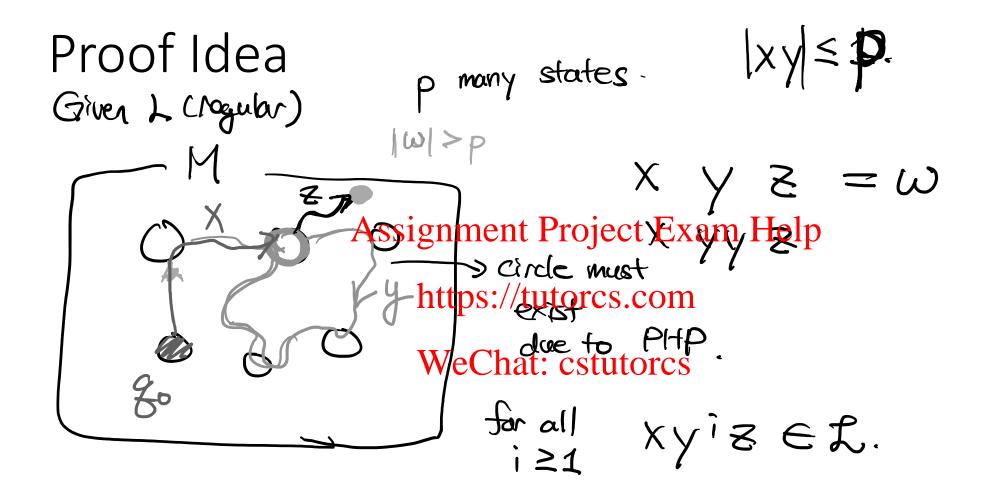
```
n pigean holes, ntl pigeons,

cell pigeons go mto pigeonholes.

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a pigeonhole with 22 pigeons.

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What do we therefore want?

• Contrapositive of the statement
$$h = \{0^n 1^n \mid n \ge 1\}$$

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• Contrapositive of the statement $h =$

Exercise: Same # of zeroes and ones

Assume
$$R_{-} = \{ \omega \in \{0,1\}^* \mid \text{egad} \neq \text{of zeroes ordones} \}$$
, Assume $R_{-} = \{ \omega \in \{0,1\}^* \mid \text{egad} \neq \text{of zeroes ordones} \}$, $W = \{ 0, 1 \} \}$ Such that all $\omega \in \{1, |\omega| > p \}$.

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| X y y z \in \mathcal{Z} \in \mathcal{R} \text{ has more zeroes than 1's.}

X y y z \in \mathcal{Z} \in \mathca

Exercise: ww

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Suchthat

$$S = 0$$
 $S = 0$
 $S = 0$

0^i 1^j where i > j

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Picture now

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Why is regular language not that powerful?

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