Lecture 7

Algebra of regular expressions: two constants \mathcal{E} , \mathcal{G} , one constants every ac \mathcal{E} , Two binary op \mathcal{F} , and one many op \mathcal{F} Laws. $R + \mathcal{G} = \mathcal{G} + \mathcal{R} = \mathcal{R}$ $R + \mathcal{G} = \mathcal{G} + \mathcal{R} = \mathcal{G}$ $R + \mathcal{G} = \mathcal{G} + \mathcal{G} = \mathcal{G}$ $R + \mathcal{G} = \mathcal{G} + \mathcal{G} = \mathcal{G}$ $R \cdot \mathcal{G} = \mathcal{G} \cdot \mathcal{R} = \mathcal{G}$ $R \cdot \mathcal{G} = \mathcal{G} \cdot \mathcal{R} = \mathcal{R}$ $R \cdot \mathcal{G} = \mathcal{G} \cdot \mathcal{R} = \mathcal{R}$ $R \cdot \mathcal{G} = \mathcal{G} \cdot \mathcal{R} = \mathcal{R}$ $R \cdot \mathcal{G} = \mathcal{G} \cdot \mathcal{R} = \mathcal{R}$ $R \cdot \mathcal{G} = \mathcal{G} \cdot \mathcal{R} = \mathcal{G}$

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8 R. (S+T) = R.S+R.T

9 $(S+T) \cdot R = S \cdot R + T \cdot R$

(R*5)* R* = (R+5)*

Clearly (R*5)* R* \(\alpha \) (R+5)*

Now suppose \(\alpha \in (R+5)* \) so \(\omega = \omega, \ldots \) words from \(\omega \) \(\omega \) words from \(\omega \) \(\omega \) with each \(\omega \) \(\omega \) \(\omega \) \(\omega \) in \(\omega \) \(\omega \) with each \(\omega \) \(\omega \) \(\omega \) \(\omega \) in \(\omega \) \(\omega \) \(\omega \) word has some nember of \(R \) words before it \(\omega \) since the last \(S \) word in \(R*S \), there may be several of them \(S \) overall \(R*S \) and there may be some more \(R \) words \(\omega \) the \(\omega \) and \(\omega \) we can have a pure \(R* \omega \) word \(\omega \) Assignment \(\omega \) Project Exam Help

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