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### **6.045/18.400J: Automata, Computability And Complexity ...**

Of Words), Then Must Be A Regular Language. True; All finite Languages Are Regular Languages And Regular Languages Are Closed Under Union. 2. True Or False: If Is A Regular Language, Then Must Be A Regular Language. (Here, Denotes The Reverse Of String .) False; We Can Show This Language Is 15th, 2024

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Sequence Of Tiles For Which The Concatenation Of Top Strings = Concatenation Of Bottom Strings? • Call Sequence A Match, Or Correspondence. • Post Correspondence Problem (PCP) = {  $T$  |  $T$  Is A Finite Set Of Tile Types That Has A Match }. • The 11th, 2024

### **Automata Theory, Computability And Complexity**

Mridul Aanjaneya Automata Theory 23/ 64. Finite Automata Informally, Nite Automata Are Nite Collections Of states with Transition Rules for Going From One State To Another. There Is A start state And (one Or More) accept states. Representation: Simplest Representation Is Often A Graph. 11th, 2024

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14 Algorithms And Decision Procedures For Context-Free Languages 314 14.1 The Decidable Questions 314 14.2 The Undecidable Questions 320 13 Context-Free And Noncontext-Free Languages 279 13.1 Where Do the Context-Free Languages Fit In the Big Picture? 279 13.2 Showing That A Language Is Context-Free 280 13.3 The Pumping Theorem 11th, 2024

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3. If Is Regular And Is Non-regular, Then Is Non-regular. 4. If Is Regular, Is Non-regular, And Is Regular, Then Is Non-regular. Problem 3: Regular Expressions. Write Regular Expressions For The Following Languages. The Alphabet Is  $\{0, 1\}$ . 1. Contains At Least Two 0's . 2. Contains An Even Number Of 0's . 5th, 2024

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• Languages • Grammars • Automata 3. Some Applications. Learning Objectives At The Conclusion Of The Chapter, The Student Will Be Able To: • Define The Three Basic Concepts In The Theory Of Computation: Automaton, Formal Language, And Grammar. • So 8th, 2024

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1 Why Study Automata Theory? 2 Languages And Strings 1) Consider The Language  $L = \{1^n 2^n : n > 0\}$ . Is The String 122 In L? No. Every String In L Must Have The Same Number Of 1's As 2's. 2) Let  $L_1 = \{a^n b^n : n > 0\}$ . Let  $L_2 = \{c^n : n > 0\}$ . 3th, 2024

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Closure Properties Of CFL Theorem Let  $L$  Be A Context-free Language Over  $T$  And  $\sigma$  Be A Substitution On  $T$  Such That  $\sigma(a)$  Is A CFL For Each  $a$  In  $T$ . Then  $\sigma(L)$  Is A CFL. Proof Let  $G = (N;T;P;S)$  Be A Context-free Grammar Generating  $L$ . Since  $\sigma(a)$  Is A CFL, Let  $G_a = (N_a;T_a;P_a;S_a)$  Be A CFG Generating  $\sigma(a)$  For Each  $a \in T$ . Without Loss Of Generality ... 17th, 2024

### **Automata Theory And Computability - 15CS54**

CFL - Closure Properties 1 Prove That Context -free Languages Are Closed Under: • Union • Concatenation • Kleene Star • Reverse 4 Each 2 Prove That Context-free Languages Are Not Closed Under: • Intersection • Complement • Difference 3 Each 3. Prove That CFL's Are Closed Under Intersection And Difference With The Regular 7th, 2024

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An Automaton With A Finite Number Of States Is Called A Finite Automaton (FA) Or Finite State Machine (FSM). 2. Why To Study Theory Of Computation? Theory Of Computation Is Mainly Concerned With The Study Of How Problems Can Be Solved Using Algorithms. It Is The Study Of M 10th, 2024

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Which Build Sets Out Of Smaller Sets, And Predicative Representations Such As Circuits, CNFs, And DNFs, Which Give A Predicate Which De Nes The Elements Of The Set. De Niton 1. A Succinct Circuit Representation (SCR) Of A String Xof Length  $2n$  Is A Boolean Circuit Cwith Ninputs Which Has  $2^n$ , 2024

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