INF1a-CL NFA DFA regex

- -Tseytin
- -Syllogisms

-DPLL

- -The arrow rule
- -Haskell coding in CL
- -Sequent calculus
- -Satisfiability and CNF
- -Operations on machine languages
- -Resolution
- -Logic
- -Karnaugh maps

Today regex NFA DFA Monday Syllogisms Arrow Rule KM Thursday Sequent Calculus CNF Tseytin Friday DPLL Satisfiability



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N(t)

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For the product construction we can ignore black hole states in either component



For the sum construction we must include any black hole state in each component



Product : OK to ignore black hole



sum : must include black hole





5. Each diagram shows an FSM. In each case give a regular expression for the language accepted by the FSM, make a mark in the check box against each string that it accepts (and no mark against those strings it does not accept), make a mark in the DFA check box if it is deterministic, and draw an equivalent DFA if it is not.































DFA

- a) (a|b(a|b))(a(a|b)|b(a|b(a|b)))*
- b) (a|ba*b)((a|b)a*b)*|(b|a(a|b))(a|b(a|b))*
- C) (a|ba*b)((a|b)a*b)*
- d) a((a|b)(aa|bb))*|(aa|bb)((a|b)(aa|bb))*
- e) a((a|b)(aa|bb))*