

## Automata Theory Homework Ii Solutions

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### Automata Theory Homework Ii Solutions

Solution: Consider the DFA  $D_1 = (Q; \Sigma; \delta; q_0; F)$  of  $L$ ; we construct the following DFA  $D_2 = (Q; \Sigma; \delta; q_0; F_0)$ , where a state  $q_i \in F_0$ , if and only if,  $\neg(q_i \in F)$ . It is clear that  $D_2$  accepts precisely those strings  $w$ , such that  $w \notin L$ . In other words,  $D_2$  is the DFA accepting  $Q_{\text{ota}}(L)$ , thereby establishing that  $Q_{\text{ota}}(L)$  is regular. 2 5.

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## **1 Problems Automata Theory- Homework II (Solutions)**

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- Companion website – Organized to follow the organization of the text, the companion website

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### **homework 3 - Problems - Formal Languages and Automata ...**

Automata Theory.  $\Sigma = \{a, b\}$ . All strings in which the letter b is never tripled. This means that no word contains the substring bbb. \*\*\*It can contain only b as well as other combinations\*\*\* (i) Make DFA (ii) Make NFA (iii) Transition Graph

### **Solved: Automata Theory $\Sigma = \{a, B\}$ . All Strings In Which T ...**

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