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# **Finite Automata And Regular Expressions Problems And**

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**Solutions By Hollos**  
**Stefan Hollos J**  
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Conversion of Regular Expression  
to Finite Automata - Examples (Part

1) 1 - Convert Regular Expression  
to Finite-State Automaton

Conversion of Regular Expression  
to Finite Automata 28 finite

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automata to regular expression  
~~Conversion of Regular Expression  
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2) Conversion of Regular  
Expression to Finite Automata -  
Examples (Part 3) convert regular  
expression to finite automata | TOG~~

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Computation Lecture~~

~~63 Conversion of Finite automata  
to Regular Expression and vice~~

~~versa Theory Of Computation 61 --~~

Examples of Regular expressions

REGULAR EXPRESSION TO

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PART 1 | THEORY OF  
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expressions and Non-Deterministic  
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29 - CONVERSION FINITE  
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EXPRESSION with Practice

Questions and SRP in TOC Part

5.7 Conversion of Finite Automata

to Regular Expression how to

convert fa to regular expression

Equivalence of Regular Expression

and Finite Automata

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Equivalence of Regular  
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expression into finite automata  
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DFA to Regular Expression

Conversion Finite Automata And  
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Even number of a's : The regular

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expression for even number of  $a$ 's  
is  $(b|ab^*ab^*)^*$ . We can construct a  
finite automata as shown in Figure

1. The above automata will accept  
all strings which have even number  
of  $a$ 's. For zero  $a$ 's, it will be in  $q_0$   
which is final state.

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Designing Finite Automata from  
Regular Expression (Set 1 ...

Converting Finite Automata to  
Regular Expressions Yes, any finite  
automaton can be converted into  
regular expression defining the

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language the automaton accepts.  
This means the set of all languages  
defined by regular expressions is  
equal to the set of all languages  
accepted by finite automata, so  
there's no point trying to extend the  
expressive power of regular

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expressions.

SI340: Regular Expressions and  
Finite Automata

Using Arden's Theorem to find  
Regular Expression of Deterministic  
Finite automata □ For getting the

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regular expression for the automata  
we first create equations of the  
given form for all the states  $q_1 = q_1 w_{11} + q_2 w_{21} + \dots + q_n w_{n1} + \epsilon$  ( $q_1$  is the initial state)

$q_2 = q_1 w_{12} + q_2 w_{22} + \dots + q_n w_{n2} \dots$   
 $q_n = q_1 w_{1n} + q_2 w_{2n} + \dots + q_n w_{nn}$   
 $w_{ij}$  is

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the regular expression representing  
the set of labels of edges from  $q_i$  to  
 $q_j$

Generating regular expression from  
Finite Automata ...

a finite state automata given a

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regular expression, and an algorithm is given that derives the regular expression given a finite state automata. This means the conversion process can be implemented. In fact, it is commonly the case that regular expressions



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are used to describe patterns and  
that a program is created to match  
the pattern

## Regular Expressions and Finite State Automata

automaton with regular expression

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labels on the arcs. Eliminate all states except  $q$  and the start state  $q_0$ . 2. If  $q \neq q_0$ , then we shall be left with a two-state automata: U Start S T R One regular expression that describes the accepted strings:  $(R + SU^*T)^*SU^*$  3. If the start state

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Regular expressions into finite  
automata. Author links open

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overlay panel Anne Brüggemann-  
Klein. Show more. Share. ... It is a  
well-established fact that each  
regular expression can be  
transformed into a nondeterministic  
finite automaton (NFA) with or  
without  $\epsilon$ -transitions, and all authors

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seem to provide their own variant of  
the construction

Regular expressions into finite  
automata - ScienceDirect

There are several methods to do  
the conversion from finite automata

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to regular expressions. Here I will describe the one usually taught in school which is very visual. I

believe it is the most used in practice. However, writing the algorithm is not such a good idea. State removal method.

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How to convert finite automata to  
regular expressions?

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author stefan hollos aug 2013 Oct  
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in a state first abstract machine



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Expressions Problems And ...

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automata, dfa, nfa, regexp,  
transition diagram in automata,

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transition table, theory of automata,  
examples of dfa, minimization of  
dfa, non deterministic finite  
automata, etc. ... Design a FA from  
given regular expression  $10 + (0 +$   
 $11)0^* 1$ . Solution: First we will  
construct the ...

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A Regular Expression can be recursively defined as follows  $\epsilon$ .  $\epsilon$  is a Regular Expression indicates the language containing an empty

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string. ( $L(\epsilon) = \{\epsilon\}$ )  $\epsilon$  is a Regular Expression denoting an empty language. ( $L(\epsilon) = \{\epsilon\}$ )  $x$  is a Regular Expression where  $L = \{x\}$ . If  $X$  is a Regular Expression denoting the language  $L(X)$  and  $Y$  is a Regular Expression denoting the language

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Regular Expressions -

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of Computation from GATE CSE  
subject wise and chapter wise with  
solutions. ... Which one of the

following regular expressions  
represents the language: the set of  
all binary strings having two  
consecu... GATE CSE 2016 Set 1.

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Finite Automata and Regular  
Language | Theory of ...

□ if  $r$  and  $s$  are regular expressions,  
then so is  $(r|s)$  □ if  $r$  and  $s$  are  
regular expressions, then so is  $rs$  □  
if  $r$  is a regular expression, then so

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is (r) Every regular expression is built up inductively, by finitely many applications of the above rules.

(N.B. we assume  $\epsilon$ ,  $\lambda$ ,  $(, )$ ,  $|$ , and  $\cup$  are not symbols in  $\Sigma$ .) Slide 5

Remark 1 ...



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## Lecture Notes on Regular

## Languages and Finite Automata

The set of strings accepted by a finite automaton is referred to as the language accepted by the finite automaton (or the regular expression defined by the finite

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automaton). The above finite  
automaton accepts the language  
defined by  $a^*ba^*$ .

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According to the above definition,

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deterministic finite automata are always complete: they define a transition for each state and each input symbol. While this is the most common definition, some authors use the term deterministic finite automaton for a slightly different

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notion: an automaton that defines  
at most one transition for each state

Deterministic finite automaton -  
Wikipedia

1 Finite Automata and Regular

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Expressions Motivation: Given a pattern (regular expression) for string searching, we might want to convert it into a deterministic finite automaton or nondeterministic finite automaton to make string searching more efficient; a

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determin- istic automaton only has  
to scan each input symbol once.

## 1 Finite Automata and Regular Expressions

This set of Compilers Interview  
Questions and Answers focuses on

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Finite Automata and Regular Expressions 2. Which of the following strings is not generated by the following grammar?  $S \rightarrow SaSbS \mid e$  a) aabb b) abab c) aababb d) aaabbb Regular expressions can be used only for

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values of type string and number.

a) □

Compilers Questions and Answers

□ Finite Automata and ...

The language accepted by finite automata can be easily described



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by simple expressions called  
Regular Expressions. It is the most  
effective way to represent any  
language. The languages accepted  
by some regular expression are  
referred to as Regular languages. A  
regular expression can also be

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described as a sequence of pattern  
that defines a string.  
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Conversion of Regular Expression  
to Finite Automata - Examples (Part

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1) 1 - Convert Regular Expression  
to Finite-State Automaton

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to Finite Automata 28 finite  
automata to regular expression

~~Conversion of Regular Expression  
to Finite Automata - Examples (Part~~

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Expression to Finite Automata  
Examples (Part 3) convert regular  
expression to finite automata | TOG  
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convert fa to regular expression

Equivalence of Regular Expression  
and Finite Automata

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## DFA to Regular Expression Conversion Finite Automata And Regular Expressions

Even number of a's : The regular expression for even number of a's is  $(b|ab^*ab^*)^*$ . We can construct a finite automata as shown in Figure

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1. The above automata will accept all strings which have even number of a's. For zero a's, it will be in  $q_0$  which is final state.

Designing Finite Automata from  
Regular Expression (Set 1 ...

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Converting Finite Automata to  
Regular Expressions Yes, any finite  
automaton can be converted into  
regular expression defining the  
language the automaton accepts.  
This means the set of all languages  
defined by regular expressions is

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there's no point trying to extend the  
expressive power of regular  
expressions.

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Using Arden's Theorem to find  
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Finite automata - For getting the  
regular expression for the automata  
we first create equations of the  
given form for all the states  $q_1 = q$

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$q_1$  is the initial state)  $q_2 = q_1 w_{12}$   
 $+ q_2 w_{22} + \dots + q_n w_{n2} \dots q_n = q_1$   
 $w_{1n} + q_2 w_{2n} + \dots + q_n w_{nn}$   $w_{ij}$  is  
the regular expression representing  
the set of labels of edges from  $q_i$  to  
 $q_j$

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Generating regular expression from  
Finite Automata ...

a finite state automata given a  
regular expression, and an  
algorithm is given that derives the  
regular expression given a finite

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state automata. This means the  
conversion process can be  
implemented. In fact, it is commonly

the case that regular expressions  
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that a program is created to match  
the pattern



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State Automata

automaton with regular expression  
labels on the arcs. Eliminate all  
states except  $q$  and the start state  
 $q_0$ . 2. If  $q \neq q_0$ , then we shall be

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left with a two-state automata: U  
Start S T R One regular expression  
that describes the accepted strings:  
(R +SU $\square$ T) $\square$ SU $\square$  3. If the start state  
is also a final state, then we are left  
with a one-state automaton

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well-established fact that each

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regular expression can be transformed into a nondeterministic finite automaton (NFA) with or without  $\epsilon$ -transitions, and all authors seem to provide their own variant of the construction

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Regular expressions into finite  
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There are several methods to do the conversion from finite automata to regular expressions. Here I will describe the one usually taught in school which is very visual. I

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believe it is the most used in practice. However, writing the algorithm is not such a good idea. State removal method.

How to convert finite automata to regular expressions?

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automata, dfa, nfa, regexp,  
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examples of dfa, minimization of  
dfa, non deterministic finite

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automata, etc. ... Design a FA from  
given regular expression  $10 + (0 +$   
 $11)0^* 1$ . Solution: First we will

construct the ...

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A Regular Expression can be recursively defined as follows  $\epsilon$ .  $\epsilon$  is a Regular Expression indicates the language containing an empty string.  $(L(\epsilon) = \{\epsilon\})$   $\epsilon$  is a Regular Expression denoting an empty language.  $(L(\epsilon) = \{\})$   $x$  is a Regular

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Expression where  $L = \{x\}$ . If  $X$  is a  
Regular Expression denoting the  
language  $L(X)$  and  $Y$  is a Regular  
Expression denoting the language  
 $L(Y)$ , then

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solutions. ... Which one of the

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following regular expressions  
represents the language: the set of  
all binary strings having two  
consecu... GATE CSE 2016 Set 1.

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Language | Theory of ...

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□ if  $r$  and  $s$  are regular expressions, then so is  $(r|s)$  □ if  $r$  and  $s$  are regular expressions, then so is  $rs$  □ if  $r$  is a regular expression, then so is  $(r)^*$  □ Every regular expression is built up inductively, by finitely many applications of the above rules.

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(N.B. we assume  $\epsilon$ ,  $\lambda$ ,  $(, )$ ,  $|$ , and  $\square$   
are not symbols in  $\Sigma$ .) Slide 5  
Remark 1 ...

Lecture Notes on Regular  
Languages and Finite Automata  
The set of strings accepted by a



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finite automaton is referred to as the language accepted by the finite automaton (or the regular expression defined by the finite automaton). The above finite automaton accepts the language defined by  $a^*ba^*$ .

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According to the above definition,  
deterministic finite automata are  
always complete: they define a  
transition for each state and each

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input symbol. While this is the most common definition, some authors use the term deterministic finite automaton for a slightly different notion: an automaton that defines at most one transition for each state

...

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Deterministic finite automaton -  
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Expressions Motivation: Given a  
pattern (regular expression) for  
string searching, we might want to

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convert it into a deterministic finite automaton or nondeterministic finite automaton to make string searching more efficient; a deterministic automaton only has to scan each input symbol once.

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## 1 Finite Automata and Regular Expressions

This set of Compilers Interview Questions and Answers focuses on  
□ Finite Automata and Regular Expressions □ 2□. Which of the following strings is not generated by

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the following grammar?  $S \rightarrow$

$SaSbS \mid e$  a) aabb b) abab c)

aababb d) aaabbb Regular

expressions can be used only for  
values of type string and number.

a)

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## Compilers Questions and Answers

### □ Finite Automata and ...

The language accepted by finite automata can be easily described by simple expressions called Regular Expressions. It is the most effective way to represent any



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language. The languages accepted by some regular expression are referred to as Regular languages. A regular expression can also be described as a sequence of pattern that defines a string.