

Course: SE312 Theory of Computing (Section: B)
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Lab 07

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1. Consider the following DFA in the figure:

	<i>0</i>	<i>1</i>
<i>-> A</i>	<i>B</i>	<i>A</i>
<i>B</i>	<i>A</i>	<i>C</i>
<i>C</i>	<i>D</i>	<i>B</i>
<i>* D</i>	<i>D</i>	<i>A</i>
<i>E</i>	<i>D</i>	<i>F</i>
<i>F</i>	<i>G</i>	<i>E</i>
<i>G</i>	<i>F</i>	<i>G</i>
<i>H</i>	<i>G</i>	<i>D</i>

Write a C program to:

- Implement the table-filling algorithm to find all the pairs of equivalent states and print the table of distinguishabilities for the above DFA.
- Show the minimum-state equivalent DFA using the table.