

## CSE 103: Discrete Mathematics

### Assignment : Exercise 1.1

#### Problem No. 39

Question: Make a truth table for  $(p \leftrightarrow q) \leftrightarrow (r \leftrightarrow s)$

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### Truth Table for Question No. 39 of 1.1

p	q	r	s	$p \leftarrow \rightarrow q$	$r \leftarrow \rightarrow s$	$(p \leftarrow \rightarrow q) \leftarrow \rightarrow (r \leftarrow \rightarrow s)$
F	F	F	F	T	T	T
F	F	F	T	T	F	F
F	F	T	F	T	F	F
F	F	T	T	T	T	T
F	T	F	F	F	T	F
F	T	F	T	F	F	T
F	T	T	F	F	F	T
F	T	T	T	F	T	F
T	F	F	F	F	T	F
T	F	F	T	F	F	T
T	F	T	F	F	F	T
T	F	T	T	F	T	F
T	T	F	F	T	T	T
T	T	F	T	T	F	F
T	T	T	F	T	F	F
T	T	T	T	T	T	T