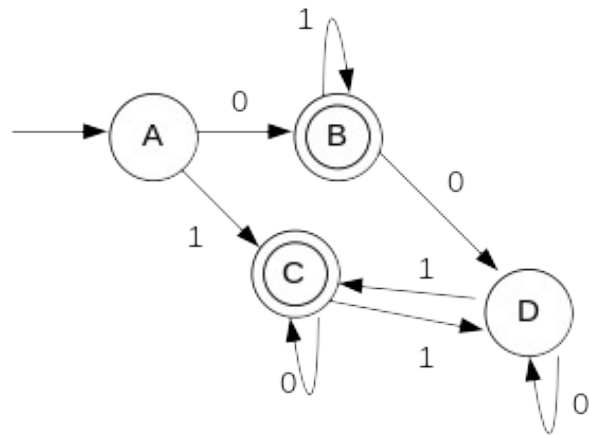


**Theory of Computation (I)**  
**Fall – 2017**  
**Quiz # 5**  
**Section D**

**Marks :10**

**Time allowed: 10 minutes**

**Find the minimal DFA (if any) for the following automata by filling the table given below.**



<b>B</b>			
<b>C</b>			
<b>D</b>			
	<b>A</b>	<b>B</b>	<b>C</b>

**Theory of Computation (I)**

**Fall – 2017**

**Quiz # 6**

**Section D**

**Marks :10**

**Time allowed: 10 minutes**

**Design a single tape TM for the following language**

**$\Sigma = \{0,1\}$**

**$L = \{x \mid x \in \Sigma^* \text{ and decimal equivalence of } x \text{ should be divisible by } 3\}$**