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- Required Reserves (RR); Excess Reserves (ER)
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 $\mathsf{Monetary\ Base}(\mathit{MB}) = \mathit{C} + \mathit{R} = \mathit{C} + \mathit{RR} + \mathit{ER} = \mathit{c} \times \mathit{D} + \mathit{rr} \times \mathit{D} + \mathit{er} \times \mathit{D} = (\mathit{c} + \mathit{rr} + \mathit{er}) \times \mathit{D}.$

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$$\implies D = \frac{1}{c + rr + er} \times MB.$$

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Money Supply
$$(M1) = C + D = c \times D + D = (c+1) \times D = \frac{1+c}{rr+er+c} \times MB$$
.

$$\implies$$
 Money multiplier $(m) = \frac{1+c}{rr+er+c}$.