$$\frac{Possible \ BST \Rightarrow ??}{Co = C_1 = 1}$$

$$Cm = CoCm-1 + C_1Cm-2 + - - - + Cm-1 Co$$

$$c_{2} = c_{0}c_{1} + c_{1}c_{0}$$

$$= 1 + 1 = 2$$

$$c_{0} = c_{1} = c_{2}$$

$$1, 1, 2, 5$$

$$c_{3} = c_{0}c_{2} + c_{1}c_{1} + c_{2}c_{0}$$

$$= 1 * 2 + 1 + 2$$

$$= 5$$

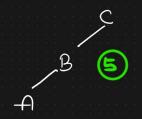
 $n \rightarrow \#$  moder in BST

$$m=0 \qquad 1 \text{ Way}$$

$$m=1 \qquad 1 \text{ Way}$$

$$M=2 \qquad A \qquad OR \qquad B \qquad 2 \text{ Way}$$

$$A < B \qquad (A,B)$$



n — Possible unique BST

(Catalan

Number