

PowerRelation

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$$R = \{(1, 1), (1, 2), (2, 3), (3, 4)\}$$

- $(1, 1) \rightarrow (1, 1)$
- $(1, 1), (1, 2) \rightarrow (1, 2)$
- $(1, 2), (2, 3) \rightarrow (1, 3)$
- $(2, 3), (3, 4) \rightarrow (3, 4)$

$$R^2 = \{(1, 1), (1, 2), (1, 3), (2, 4)\}$$

- $(1, 1) \rightarrow (1, 1)$
- $(1, 1), (1, 2) \rightarrow (1, 2)$
- $(1, 1), (1, 3) \rightarrow (1, 3)$
- $(1, 2), (2, 4) \rightarrow (3, 4)$

$$R^3 = \{(1, 1), (1, 2), (1, 3), (1, 4)\}$$