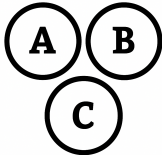


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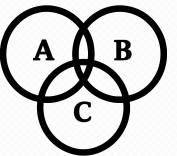
Introduction

F



$$S = \{ "H", "T" \}$$

$$T = \{ "H", "T" \}$$



$$S * T = \{ \{ "H", "H" \}, \{ "H", "T" \}, \{ "T", "H" \}, \{ "T", "T" \}, \}$$

$$|S * T| = |S| * |T| = 4$$

?

$$A = \{ "H", "T" \}$$

$$B = \{ 1, 2, 3, 4, 5, 6 \}$$

$$A * B = ?$$

$$|A * B| = ?$$

F

Introduction

F



$$A = \{ "H", "T" \}$$

$$B = \{ 1, 2, 3, 4, 5, 6 \}$$

$$A * B = \{ \{ "H", 1 \}, \{ "H", 2 \}, \{ "H", 3 \}, \{ "H", 4 \}, \{ "H", 5 \}, \{ "H", 6 \}, \{ "T", 1 \}, \{ "T", 2 \}, \{ "T", 3 \}, \{ "T", 4 \}, \{ "T", 5 \}, \{ "T", 6 \} \}$$

$$|A * B| = |A| * |B| = 2 * 6 = 12$$