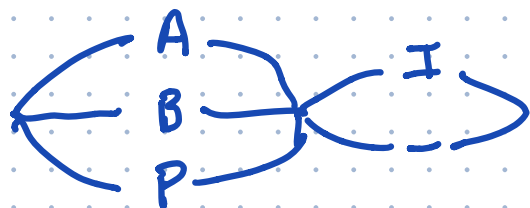
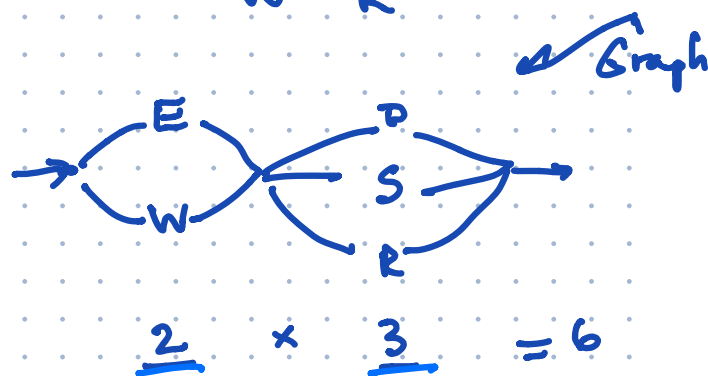
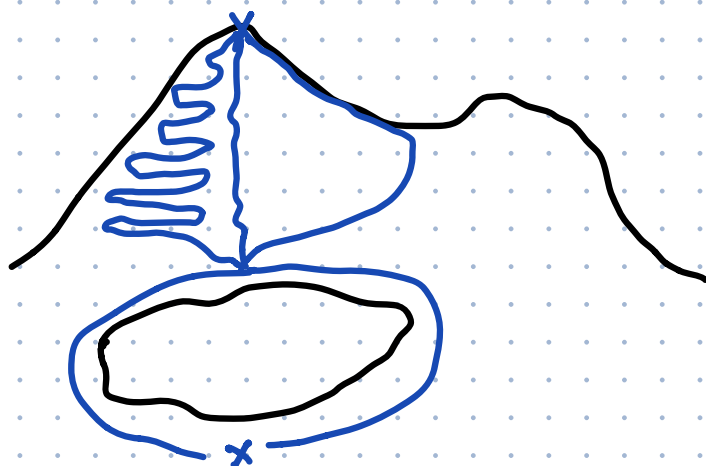
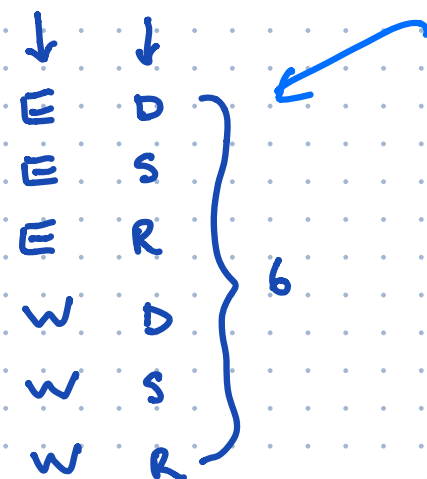


The Multiplication Principle

For two independent events A and B that can occur in m and n ways respectively the total number of outcomes for $A \cap B$ is

$$\boxed{m \times n}$$



$$3 \times \cancel{8} = \cancel{18} 18$$

$$3 \times 2 = 6$$

$$\underline{3} \times \underline{6} \times \underline{2} = 36$$

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$$\underline{26} \cdot \underline{26} \cdot \underline{26} \cdot \underline{10} \cdot \underline{10} = 1,757,600$$