

모집단의 평균과 분산과 표준편차

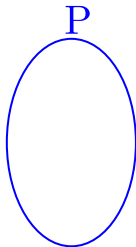
(Mean and Variance and and Standard Deviation of Population)

Mean and Variance and Standard Deviation of Population

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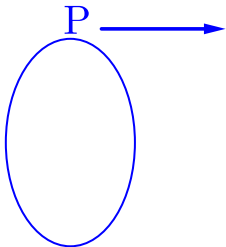
Mean and Variance and Standard Deviation of Population

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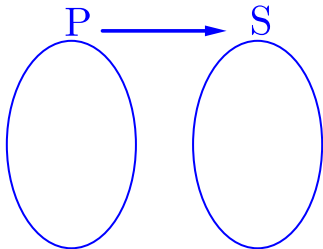
Mean and Variance and Standard Deviation of Population

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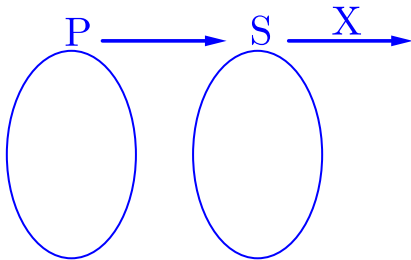
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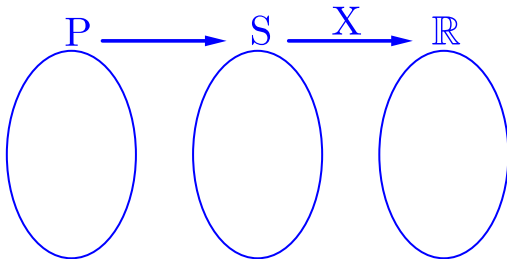
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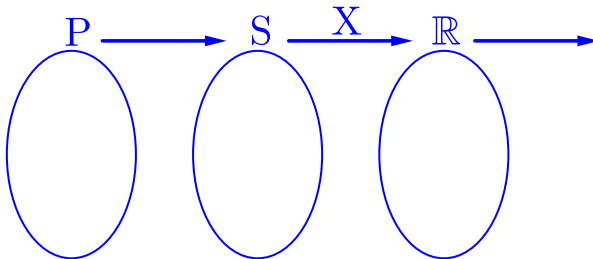
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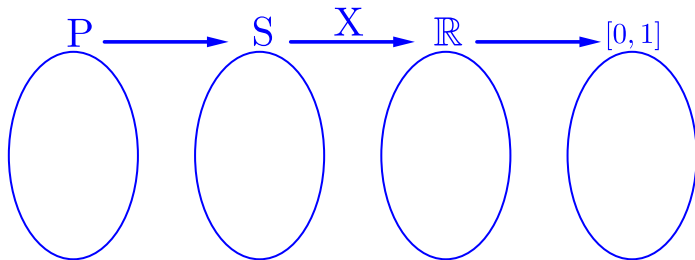
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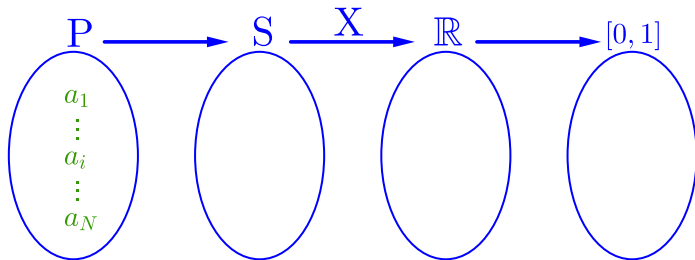
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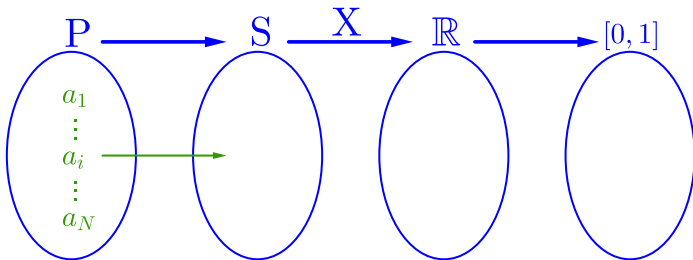
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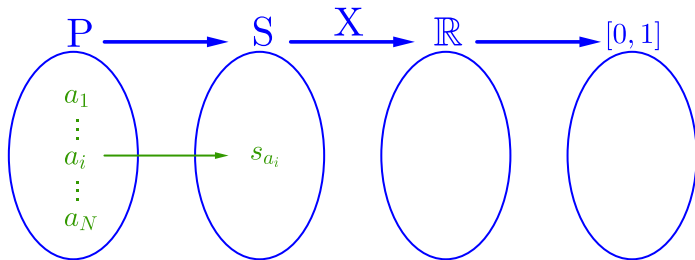
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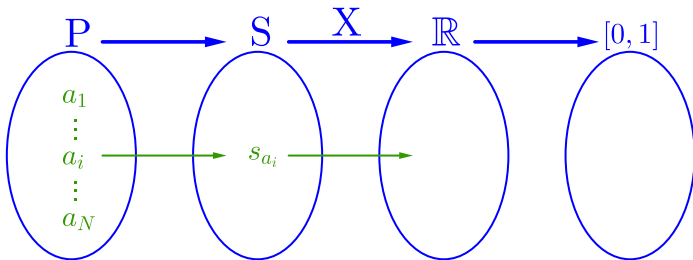
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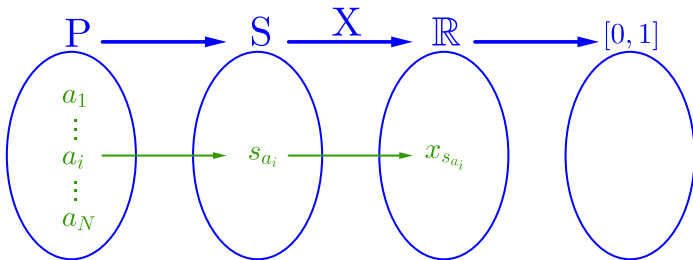
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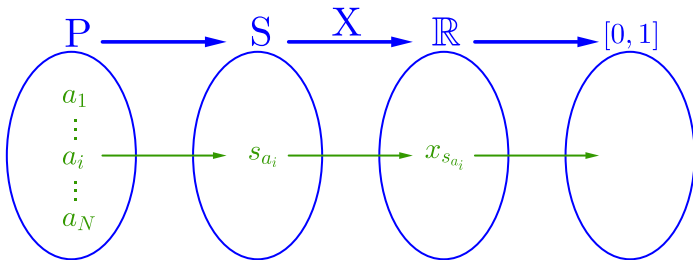
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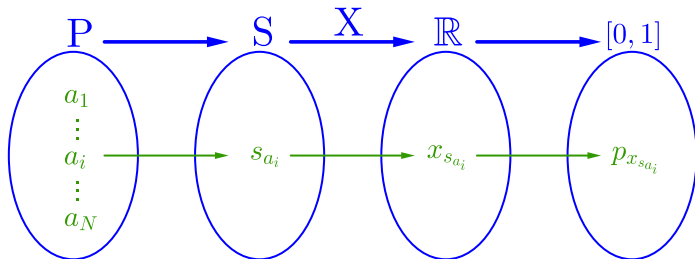
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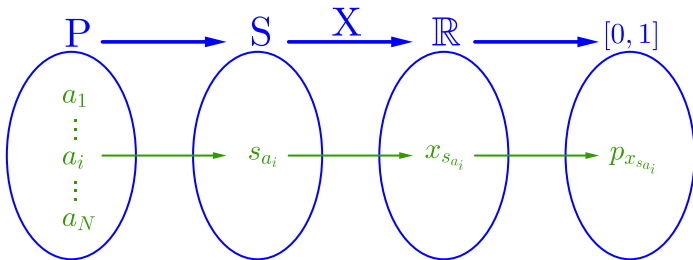
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Mean and Variance and Standard Deviation of Population

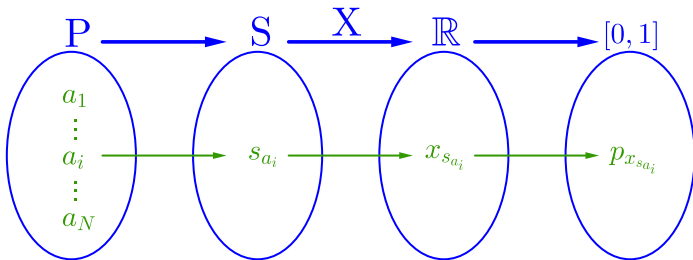
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$E(X)$

Mean and Variance and Standard Deviation of Population

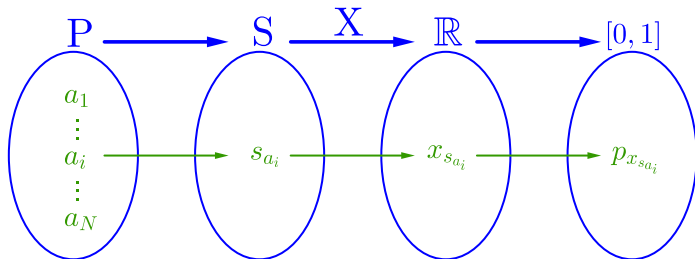
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$$E(X) = \sum_{x \in \bigcup_{i=1}^N \{x_{s_{a_i}}\}} xp_x$$

Mean and Variance and Standard Deviation of Population

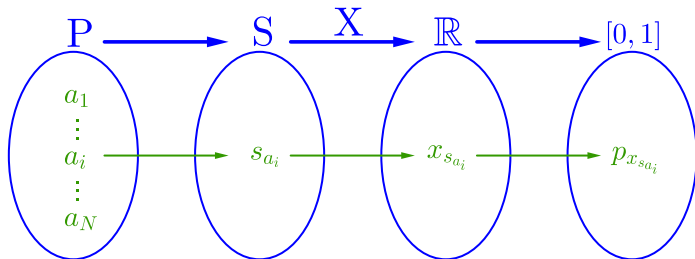
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$$E(X) = \sum_{x \in \bigcup_{i=1}^N \{x_{s_{a_i}}\}} xp_x = \sum_{i=1}^N \left(x_{s_{a_i}} \times \frac{1}{N} \right)$$

Mean and Variance and Standard Deviation of Population

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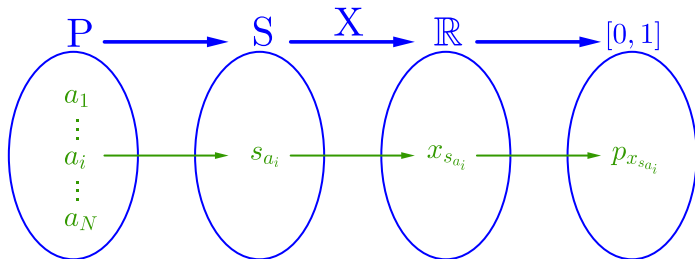


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$$E(X^2)$$

Mean and Variance and Standard Deviation of Population

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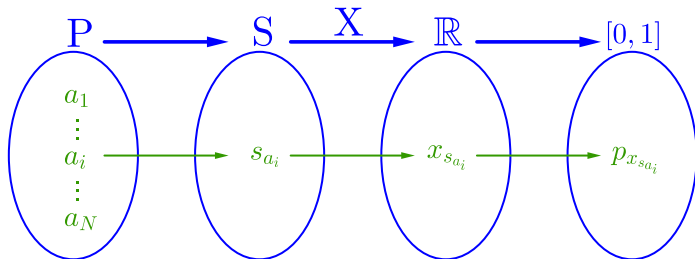


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Mean and Variance and Standard Deviation of Population

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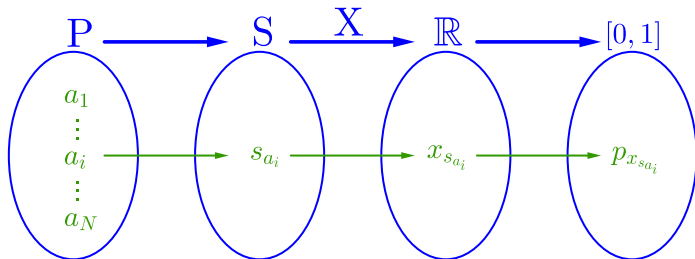


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Mean and Variance and Standard Deviation of Population

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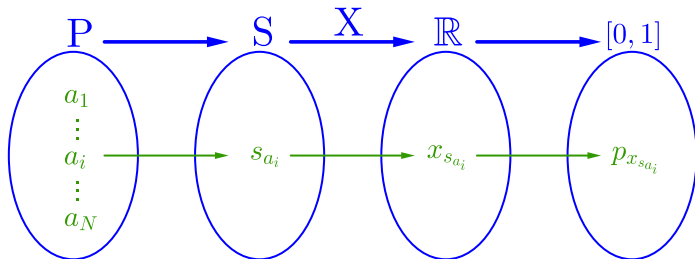
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$$V(X)$$

Mean and Variance and Standard Deviation of Population

▶ Start



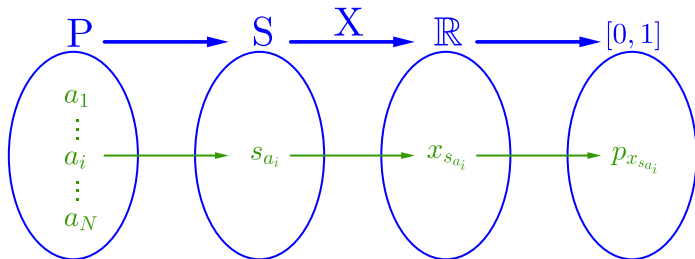
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$$V(X) = E(X^2) - \{E(X)\}^2$$

Mean and Variance and Standard Deviation of Population

▶ Start



$$E(X) = \sum_{x \in \bigcup_{i=1}^N \{x_{s_{a_i}}\}} xp_x = \sum_{i=1}^N \left(x_{s_{a_i}} \times \frac{1}{N} \right)$$

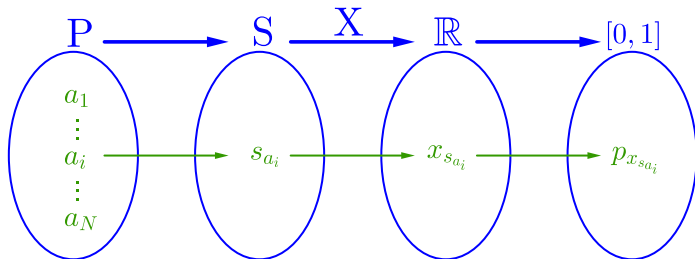
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$$V(X) = E(X^2) - \{E(X)\}^2$$

$$\sigma(X)$$

Mean and Variance and Standard Deviation of Population

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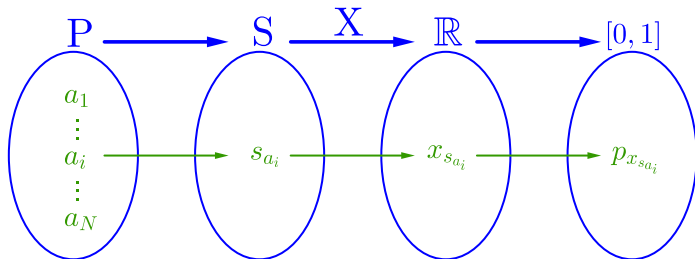
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$$V(X) = E(X^2) - \{E(X)\}^2$$

$$\sigma(X) = \sqrt{V(X)}$$

Mean and Variance and Standard Deviation of Population

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$$E(X) = \sum_{x \in \bigcup_{i=1}^N \{x_{s_{a_i}}\}} xp_x = \sum_{i=1}^N \left(x_{s_{a_i}} \times \frac{1}{N} \right)$$

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