$$S1:E2$$

$$E_{X} = 3 \ diff. \ flights \ sD - LA \\ = 4 \ diff. \ flights \ sD - LA \\ = 3 \ 4 \ diff. \ flights \ LA + SF \ itineraries. \ SD + SF \\ itineraries. \ SD + SF \\ = \ Multiplication \ Principle \\ Suppose 2 experiments are performed, \\ lxp - 1 \ can result in $\forall of m$ possible outcomes
 $exp. 2 \ m \ result in \forall of m$ possible outcomes $exp. 2 \ m \ result \ re$$$

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$$E_{X}(a)Flip a coin 5 times. e.g. KTTHT
possible outcomes = $2 \cdots 2 = 2^{5} = 32$
(b) Toss a die 5 times.
possible outcomes = $6 - 6 = 6^{5} = 7,776$$$

Ex # ways to arrange a people in a line so that Jessica is always in front of Yuki? n!, by symmetry Ex # ways to sit n people in a circle LauN (n-1)! : sit Parson 1 & place; let n-1 other people form a "line" counterclochwise of Porson

-3-