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This is another version of the birthday problem.

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$$P(D_n)$$

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$$P(D_n) = \prod_{i=1}^n$$

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$$P(D_n) = \prod_{i=1}^n \left(1 - \frac{i-1}{12}\right), \quad n \leq 13$$

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$$P(D_n) = \prod_{i=1}^n \left(1 - \frac{i-1}{12}\right), \quad n \leq 13$$

We find $P(D_4)$

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$$P(D_n) = \prod_{i=1}^n \left(1 - \frac{i-1}{12}\right), \quad n \leq 13$$

We find $P(D_4) = 0.57$

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$$P(D_n) = \prod_{i=1}^n \left(1 - \frac{i-1}{12}\right), \quad n \leq 13$$

We find $P(D_4) = 0.57$ and $P(D_5)$

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$$P(D_n) = \prod_{i=1}^n \left(1 - \frac{i-1}{12}\right), \quad n \leq 13$$

We find $P(D_4) = 0.57$ and $P(D_5) = 0.38$.