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1.e $I(X; Y) < I(Y; Z)$

$$i) E[Z] = E[X] + E[Y] = 8000$$

4/4

$$ii) P(Z \geq a) < \frac{E[Z]}{a}$$

$$P(Z \geq 20,000) < \frac{E[Z]}{20,000}$$

$$= 0.4$$

11. since X and Y are dependent, exploring every possible combination and count is tedious

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