

NCERT Exemplar Solutions by Dev Anoop (Bathinda)  
Probability, Ex 13.3

$$\textcircled{42} \quad \text{outcomes} = (1000 - 1) + 1 \\ = 1000$$

perfect squares greater than 500 are

529, 576, 625, 676, 784, 841, 900, 961, 729

$$P(\text{first player wins}) = \frac{9}{1000}$$

$$P(\text{second player wins}) = \frac{8}{999}$$

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