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## Solution for exercise 2.1.14 in Pitman

- Question a) The offspring will necessarily have (Tt,Pp) and will appear tall and purple.
- Question b) All 9 possible combinations can occur (tt, pp), (TT, PP).
- Question c) Tall with purple flowers occur in 9 of 16 equally likely combinations. The probability can be calculated by the Binomial distribution. The probability that we have at most 1 tall plant with purple flowers is 0.0278 thus the probability in question is 0.9722.