1   Rajesh applies once every year for a ticket to a music festival. The probability that he is successful in any particular year is 0.3, independently of other years.

   (a) Find the probability that Rajesh is successful for the first time on his 7th attempt.   [1]

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   (b) Find the probability that Rajesh is successful for the first time before his 6th attempt.   [2]

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   (c) Find the probability that Rajesh is successful for the second time on his 10th attempt.   [2]

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