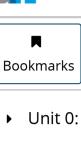


## MITx: 6.041x Introduction to Probability - The Science of Uncertainty



Unit 9: Bernoulli and Poisson processes > Lec. 21: The Bernoulli process > Lec 21 The Bernoulli process vertical4

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## Exercise: Busy periods

(1/1 point)

Consider the same setting as in the last video. After the first busy period ends (with an idle slot), there will be a subsequent busy period, which starts with a busy slot, and lasts as long as the slots are busy. Is it true that the length of the second busy period is geometric?

Yes ▼



**Answer:** Yes

## Answer:

Yes, because the argument used for the first busy period applies without change.

You have used 1 of 1 submissions

- Unit 6: Further topics on random variables
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Unit overview

Lec. 21: The Bernoulli process

Exercises 21 due May 11, 2016 at 23:59 UTC

Lec. 22: The Poisson process

Exercises 22 due May 11, 2016 at 23:59 UTC

Lec. 23: More on the Poisson process

Exercises 23 due May 11, 2016 at 23:59 UTC

Solved problems

Additional theoretical material

**Problem Set 9** 

Problem Set 9 due May 11, 2016 at 23:59 UTC

(A)

**Unit summary** 

Unit 10: Markov chains

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