



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



Bookmarks

- ▶ Unit 0: Overview
- ▶ Entrance Survey
- ▶ Unit 1: Probability models and axioms
- ▶ Unit 2: Conditioning and independence
- ▶ Unit 3: Counting
- ▶ Unit 4: Discrete random variables
- ▶ Exam 1
- ▶ Unit 5: Continuous random variables

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

Bookmark

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
- ▶ Unit 7: Bayesian inference
- ▶ Exam 2
- ▶ Unit 8: Limit theorems and classical statistics
- ▼ **Unit 9: Bernoulli and Poisson processes**

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 

Unit summary

► Unit 10: Markov
chains

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