

Courseware

Updates & News Calendar Wiki Discussion Progress

## PROBLEM 6-1 (2/2 points)

Suppose you have a six sided die, with sides number 1 through 6, and you roll it several times.

As in the problems from Lecture 3, answer each question in reduced fraction form - eg 1/5 instead of 2/10.

What is the probability that the first time you observe a 1 is on the second roll?

5/36

You have used 2 of 2 submissions

PROBLEM 6-2 (2/2 points)

What is the probability that the first time you observe a 1 is on the third roll?

25/216

Final Check

Save

You have used 1 of 2 submissions

## PROBLEM 6-3 (10/10 points)

You observe that the probability of first seeing a 1 on the n-th roll decreases as n increases. You would like to know the smallest number of rolls such that this probability is less than some limit. Complete the Python procedure, probTest(limit), to compute this.

Correct

Test results

See full output

CORRECT

See full output



EdX offers interactive online classes and MOOCs from the world's best universities. Online courses from MITx, HarvardX, BerkeleyX, UTx and many other universities. Topics include biology, business, chemistry, computer science, economics, finance, electronics, engineering, food and nutrition, history, humanities, law, literature, math, medicine, music, philosophy, physics, science, statistics and more. EdX is a non-profit online initiative created by founding partners Harvard and MIT.

© 2014 edX, some rights reserved.

Terms of Service and Honor Code

Privacy Policy (Revised 4/16/2014)

## **About & Company Info**

About

News

Contact

FAQ

edX Blog

Donate to edX

Jobs at edX

## Follow Us

Twitter

Facebook

Meetup

LinkedIn



Google+