Course / UNIT 2 / Lecture 5 - Stochastic Thinking

Previous   Next

Exercise 4

⊓ Bookmark this page

Calculator   Hide Notes

Exercise 4

3/3 points (graded)

1. Are the following two distributions equivalent?

```
import random
def dist1():
    return random.random() * 2 - 1

def dist2():
    if random.random() > 0.5:
        return random.random()
    else:
        return random.random() - 1
```

- ● Yes
- ○ No

✔

2. Are the following two distributions equivalent?

```
import random
def dist3():
    return int(random.random() * 10)

def dist4():
    return random.randrange(0, 10)
```

- ● Yes
- ○ No

✔

3. Are the following two distributions equivalent?

```
import random
def dist5():
    return int(random.random() * 10)

def dist6():
    return random.randint(0, 10)
```
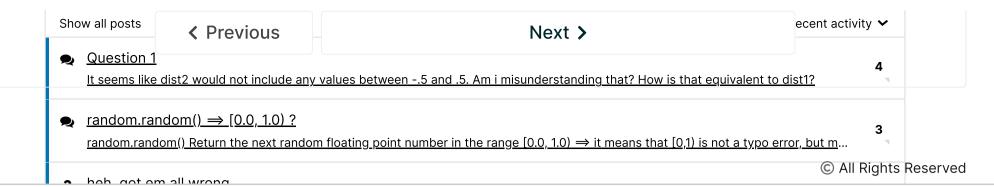
- ○ Yes
- ● No

✔

Submit

Exercise 4

Topic: Lecture 5 / Exercise 4

Hide Discussion

▦ Calculator

💬 **Question 1**

It seems like dist2 would not include any values between -.5 and .5. Am i misunderstanding that? How is that equivalent to dist1?

4

💬 **random.random() ⟹ [0.0, 1.0) ?**

random.random() Return the next random floating point number in the range [0.0, 1.0) ⟹ it means that [0,1) is not a typo error, but m...

3

heh, got em all wrong

edX

edX

About

Affiliates

edX for Business

Open edX

Careers

News

Legal

Terms of Service & Honor Code

Privacy Policy

Accessibility Policy

Trademark Policy

Sitemap

Connect

Blog

Contact Us

Help Center

Security

Media Kit

GET IT ON Google play

Download on the App Store

🖩 Calculator