

CSCI Project A

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Due: April 11th, 2021

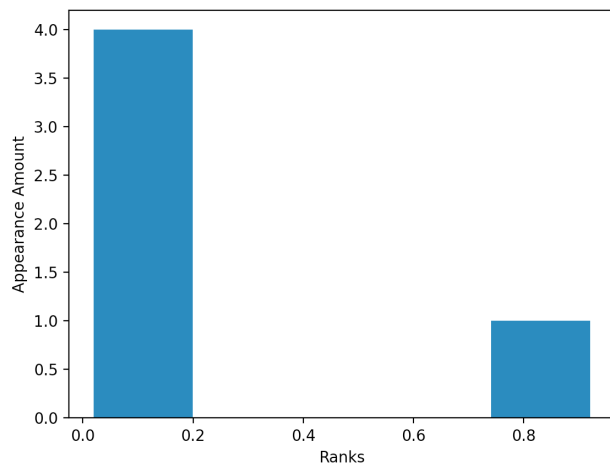
1. a) Random Crawler, tiny - trials = 100 output...

```
→ desktop python3 randomCrawler.py
Enter the number of Trials: 100
Ranks:
[[0.01]
[0.92]
[0.01]
[0.05]
[0.01]]
```

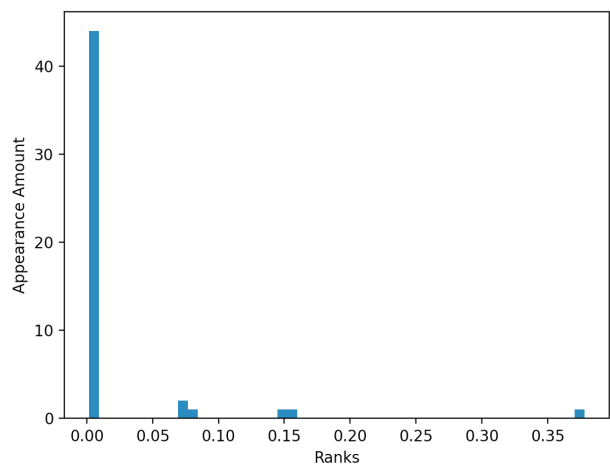
- b) Markov Method, tiny - trials = 100 output...

```
→ desktop python3 pAMarkovChain.py
Enter the number of Trials: 100
Ranks:
[[0.27302929]
[0.26572636]
[0.14618532]
[0.24722828]
[0.06783074]]
```

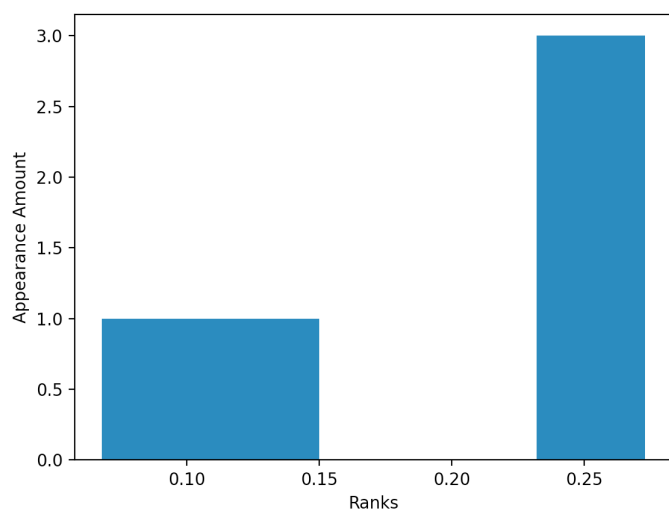
2. a) Histogram for Random Crawler, tiny - trials = 100 000



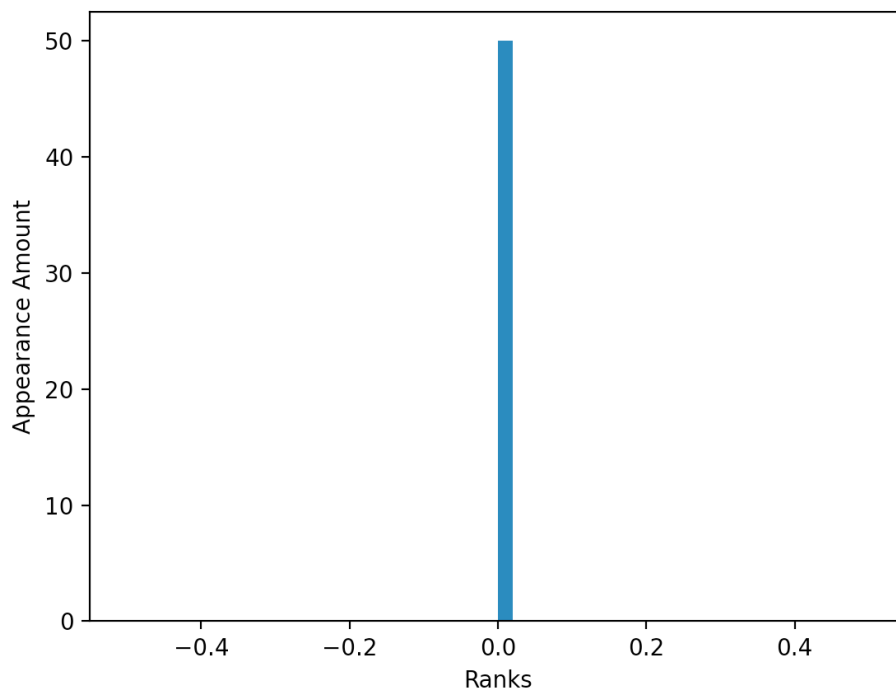
b) Histogram for Random Crawler, medium - trials = 100 000



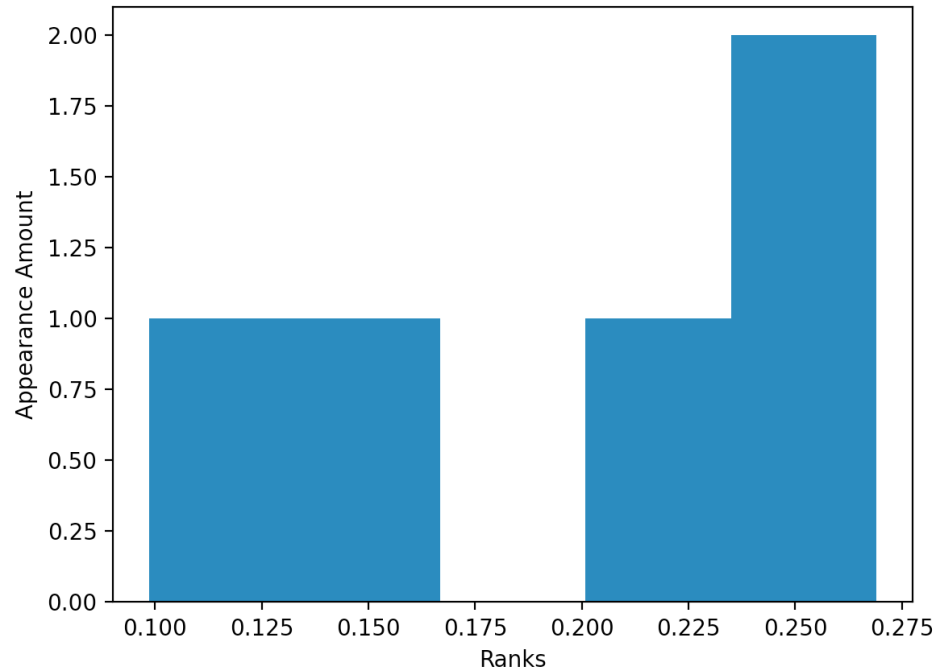
c) Histogram for Markov Method, tiny - trials = 100 000



d) Histogram for Markov Method, medium - trials = 100 000



3. Using modified version of graphs to compute for tiny & medium markov methods -
a) tiny at 100 - no dupes



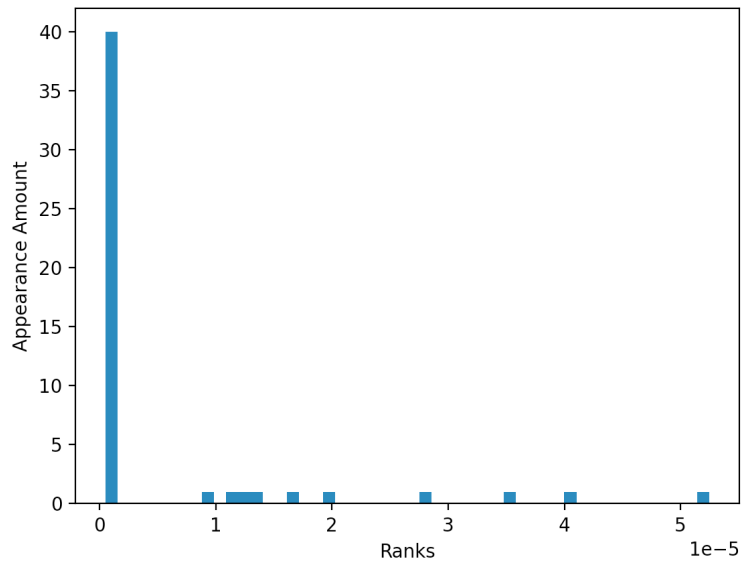
- b) Medium at 100 000 - no dupes

```
→ desktop python3 pAMarkovChain.py
Enter the number of Trials: 100000
Ranks:
[[9.e-323]
[9.e-323]
[9.e-323]
[9.e-323]
[9.e-323]
[9.e-323]
[9.e-323]
[9.e-323]
[9.e-323]
[9.e-323]
[9.e-323]
[9.e-323]
[9.e-323]
[9.e-323]
[9.e-323]
[9.e-323]
```

We can see that without duplicates, each rank is slightly more evenly dispersed

4. Modified version of medium.txt at 100 trials -

Not mod -



Mod -

