Write-up

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Program: dist.py

Language: Python version 3.9

Libraries: 'Random' only

Steps to execute the program:

- 1. Open the terminal and go to the path where the file is located.
- 2. Execute the file 'dist.py' through python3.

Python3 dist.py

3. The command line input should be given in a single string format with comma "," considering as separation of input and in the end for parameters.

3,10,binomial,10,0.5

4. The Sample numbers are printed on terminal and a file result.txt is also generated in the same path of the python program file which include sample numbers, Sample mean and Sample standard deviation.

For references:

- 1,200 for problem 5.1
- 2,500 for problem 5.6
- 3,10,bernoulli,0.5 Bernoulli distribution
- 3,10,binomial,10,0.6 Binomial distribution
- 3,15,geometric,0.8 Geometric distribution
- 3,20, negative binomial, 3,0.6 Negative binomial
- 3,10,poisson,4 Poisson distribution
- 3,15,arb,0.6,0.4,0.7(so on) Arbitrary discrete
- 3,20,uniform,1,10 uniform distribution
- 3,10,exponential,5 exponential distribution
- 3,15,gamma,0.75,1.5 Gamma distribution
- 3,20, normal, 3.0,5.0 Normal distribution