April 8 2019

14. Generators, Comprehensions and Lambda Expressions

1. Introduction

2. Generators and Yield

List and range → shows huge separation memory between list and range

Range is generator its also iterable methods thats similar to list

The yield statement

\_ = input(“input line 15 “)

The above line create the delay while execution.

3. Next and Ranges

4. Generator Examples - Fibonacci numbers and Calculating Pi

Generator

Running Fibonacci Numbers

Leibniz Formula for pi

5. The os.walk Generator

6. Searching the Filesystem

7. Reading Mp3 Tags

8. List Comprehensions

9. List Comprehensions and Side-Effects

Listcomp.py and listfor.py shows how the two code varies with the bug when used with the number variable

10. Challenge Solutions

11. Conditional Comprehensions

12. Conditional Expressions

13. Challenges

14. Challenge 1 Solution

15. Challenge 2 Solution

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16. Nested Comprehensions

17. Nested Comprehensions Challenge

18. The timeit Module

19. More on timeit

20. timeit Continued and Challenge

21. timeit Challenge

22. Map Intro

23. Map Challenge Completion

24. The Filter Function

25. The Reduce Function

26. any and all

27. Named Tuples

28. any and all with Comprehensions

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End till 11 April 2019