GreCon0 implementation by A. Yakovleva and D.I. Ignatov

Examples of factorization of contravariant scales $\Sigma_n = (\{\{1, \ldots, n\}, \{1, \ldots, n\}, \neq\})$ for n up to 513 and checking equality of 513 first terms of the empirical sequence and $\lceil \log_2(n) \rceil$ formula.

```
import sys
import math
import numpy as np
import matplotlib as mp
import matplotlib.pyplot as plt
import time
import math
import sympy
from sympy import Rational, sqrt, log
```

1. The class implementing GreCon0 with Boolean strings as integers

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class GreCon0:
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    ctxcols = None
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THE LORDS OF NORTHCOTHERINGTON.

CHAPTER XXXVIII.

GEORGE FITZWILLIAM, 5th Lord Northcotherington, 1st Earl of Northcotherington, 1st Viscount Northcotherington, 1st Baron Northcotherington, 1st Baron Northcotherington, 1st Baron

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Jerry Hobbs, Stanford Research Institute
Jerry Hobbs, Stanford Research Institute

Computational Linguistics, Vol. 8, No. 2, April-June, 1982

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Page 1 of 4

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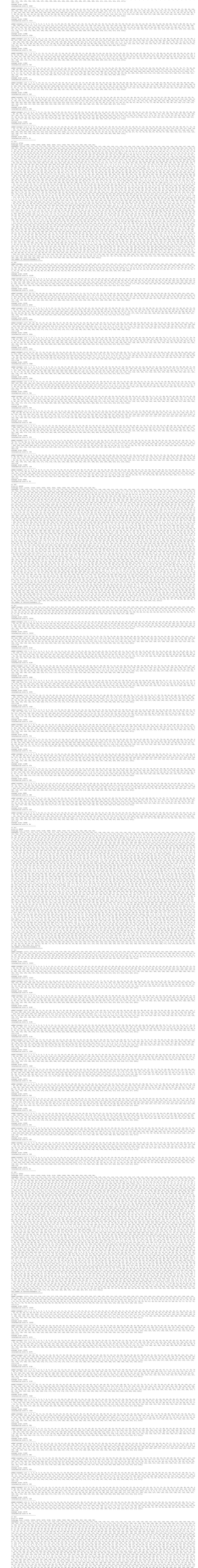

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17.1 Gravity

Gravity (/ˈɡrɑːvɪti/ from the Latin word gravitas, meaning "weight") is a fundamental interaction which causes mutual attraction between all things with mass or energy. Gravity is the weakest of the four fundamental interactions of nature, approximately 1 times weaker than the strong force, 1 times weaker than the electromagnetic force and 1 times weaker than the weak force. As a result, it has no significant influence on the behavior of subatomic particles, and plays no role in determining the internal properties of everyday matter. It makes up for this by its infinite range and its tendency to always be attractive, as opposed to the other three forces, which are attractive between some pairs of subatomic particles and repulsive between others. Gravity is responsible for giving mass to any bodies, planets, stars, and galaxies, and for the gravitational attraction between them, for the weight of bodies on Earth, for the motion of projectiles, and for the expansion and ultimate fate of the universe. Scientists are still looking for a coherent quantum description of gravity that is compatible with other fundamental forces. Attempts to understand gravity have led to many hypotheses.

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17.1.40 Gravity Article

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Image_Trailer_Checksum

[redacted]

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5.1 Lists

Lists are a fundamental data structure in Python. They are used to store a collection of items in a specific order. Lists are mutable, meaning you can change, add, or remove items after the list is created. Lists can contain any type of data, including other lists, making them very versatile.

5.1.1 Creating Lists

```
my_list = [1, 2, 3, 4, 5]
mixed_list = [1, "hello", 3.14, True, None]
nested_list = [[1, 2, 3], [4, 5, 6], [7, 8, 9]]
empty_list = []
```

5.1.2 Accessing Elements

```
fruits = ["apple", "banana", "cherry", "date", "elderberry"]
print(fruits[0])  # apple
print(fruits[1])  # banana
print(fruits[-1])  # elderberry
print(fruits[-2])  # date
```

5.1.3 Slicing Lists

```
numbers = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
print(numbers[2:5])  # [2, 3, 4]
print(numbers[:3])  # [0, 1, 2]
print(numbers[7:])  # [7, 8, 9]
print(numbers[:])  # [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
print(numbers[2:8:2])  # [2, 4, 6]
print(numbers[::-1])  # [9, 8, 7, 6, 5, 4, 3, 2, 1, 0]
```

5.1.4 Modifying Lists

```
fruits = ["apple", "banana", "cherry"]
fruits[1] = "blueberry"
print(fruits)  # ["apple", "blueberry", "cherry"]
```

5.1.5 Adding Elements

```
fruits = ["apple", "banana"]
fruits.append("cherry")
print(fruits)  # ["apple", "banana", "cherry"]
fruits.insert(1, "blueberry")
print(fruits)  # ["apple", "blueberry", "banana", "cherry"]
```

5.1.6 Removing Elements

```
fruits = ["apple", "banana", "cherry", "date", "elderberry"]
fruits.remove("banana")
print(fruits)  # ["apple", "cherry", "date", "elderberry"]
fruits.pop(2)
print(fruits)  # ["apple", "cherry", "elderberry"]
fruits.pop()
print(fruits)  # ["apple", "cherry"]
```

5.1.7 Sorting Lists

```
numbers = [3, 1, 4, 1, 5, 9, 2, 6, 5, 3, 5]
numbers.sort()
print(numbers)  # [1, 1, 2, 3, 3, 4, 5, 5, 5, 6, 9]
numbers.sort(reverse=True)
print(numbers)  # [9, 6, 5, 5, 5, 4, 3, 3, 2, 1, 1]
```

5.1.8 Reversing Lists

```
numbers = [1, 2, 3, 4, 5]
numbers.reverse()
print(numbers)  # [5, 4, 3, 2, 1]
```

5.1.9 Counting Elements

```
numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
print(numbers.count(5))  # 1
```

5.1.10 Finding Elements

```
numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
print(numbers.index(5))  # 4
```

5.1.11 Copying Lists

```
numbers = [1, 2, 3, 4, 5]
copy_numbers = numbers.copy()
print(copy_numbers)  # [1, 2, 3, 4, 5]
```

5.1.12 Clearing Lists

```
numbers = [1, 2, 3, 4, 5]
numbers.clear()
print(numbers)  # []
```

5.1.13 Extending Lists

```
numbers = [1, 2, 3, 4, 5]
numbers.extend([6, 7, 8, 9, 10])
print(numbers)  # [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

5.1.14 Multiplying Lists

```
numbers = [1, 2, 3, 4, 5]
print(numbers * 3)  # [1, 2, 3, 4, 5, 1, 2, 3, 4, 5, 1, 2, 3, 4, 5]
```

5.1.15 Checking Membership

```
numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
print(5 in numbers)  # True
print(11 in numbers)  # False
```

5.1.16 Length of Lists

```
numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
print(len(numbers))  # 10
```

5.1.17 Nested Lists

```
matrix = [[1, 2, 3], [4, 5, 6], [7, 8, 9]]
print(matrix[0][1])  # 2
print(matrix[1][2])  # 6
print(matrix[2][0])  # 7
```

5.1.18 Iterating Over Lists

```
fruits = ["apple", "banana", "cherry", "date", "elderberry"]
for fruit in fruits:
    print(fruit)
```

5.1.19 Enumerating Lists

```
fruits = ["apple", "banana", "cherry", "date", "elderberry"]
for index, fruit in enumerate(fruits):
    print(index, fruit)
```

5.1.20 Zipping Lists

```
names = ["Alice", "Bob", "Charlie", "Dave", "Eve"]
ages = [25, 30, 35, 40, 45]
for name, age in zip(names, ages):
    print(name, age)
```

5.1.21 Filtering Lists

```
numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
print(numbers[1:5])  # [2, 3, 4, 5]
print(numbers[:3])  # [1, 2, 3]
print(numbers[7:])  # [7, 8, 9, 10]
print(numbers[::2])  # [1, 3, 5, 7, 9]
print(numbers[::-1])  # [10, 9, 8, 7, 6, 5, 4, 3, 2, 1]
```

5.1.22 Mapping Lists

```
numbers = [1, 2, 3, 4, 5]
print(numbers[0:3])  # [1, 2, 3]
print(numbers[2:5])  # [3, 4, 5]
print(numbers[3:])  # [4, 5]
print(numbers[:2])  # [1, 2]
print(numbers[::3])  # [1, 4]
print(numbers[::-2])  # [5, 3, 1]
```

5.1.23 Reducing Lists

```
numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
print(numbers[0:3])  # [1, 2, 3]
print(numbers[2:5])  # [3, 4, 5]
print(numbers[3:])  # [4, 5]
print(numbers[:2])  # [1, 2]
print(numbers[::3])  # [1, 4]
print(numbers[::-2])  # [5, 3, 1]
```

5.1.24 Lists as Stacks

```
stack = [1, 2, 3, 4, 5]
print(stack[0:3])  # [1, 2, 3]
print(stack[2:5])  # [3, 4, 5]
print(stack[3:])  # [4, 5]
print(stack[:2])  # [1, 2]
print(stack[::3])  # [1, 4]
print(stack[::-2])  # [5, 3, 1]
```

5.1.25 Lists as Queues

```
queue = [1, 2, 3, 4, 5]
print(queue[0:3])  # [1, 2, 3]
print(queue[2:5])  # [3, 4, 5]
print(queue[3:])  # [4, 5]
print(queue[:2])  # [1, 2]
print(queue[::3])  # [1, 4]
print(queue[::-2])  # [5, 3, 1]
```

5.1.26 Lists as Sets

```
set = [1, 2, 3, 4, 5]
print(set[0:3])  # [1, 2, 3]
print(set[2:5])  # [3, 4, 5]
print(set[3:])  # [4, 5]
print(set[:2])  # [1, 2]
print(set[::3])  # [1, 4]
print(set[::-2])  # [5, 3, 1]
```

5.1.27 Lists as Dictionaries

```
dictionary = [1, 2, 3, 4, 5]
print(dictionary[0:3])  # [1, 2, 3]
print(dictionary[2:5])  # [3, 4, 5]
print(dictionary[3:])  # [4, 5]
print(dictionary[:2])  # [1, 2]
print(dictionary[::3])  # [1, 4]
print(dictionary[::-2])  # [5, 3, 1]
```

5.1.28 Lists as Tuples

```
tuple = [1, 2, 3, 4, 5]
print(tuple[0:3])  # [1, 2, 3]
print(tuple[2:5])  # [3, 4, 5]
print(tuple[3:])  # [4, 5]
print(tuple[:2])  # [1, 2]
print(tuple[::3])  # [1, 4]
print(tuple[::-2])  # [5, 3, 1]
```

5.1.29 Lists as Strings

```
string = [1, 2, 3, 4, 5]
print(string[0:3])  # [1, 2, 3]
print(string[2:5])  # [3, 4, 5]
print(string[3:])  # [4, 5]
print(string[:2])  # [1, 2]
print(string[::3])  # [1, 4]
print(string[::-2])  # [5, 3, 1]
```

5.1.30 Lists as Numbers

```
numbers = [1, 2, 3, 4, 5]
print(numbers[0:3])  # [1, 2, 3]
print(numbers[2:5])  # [3, 4, 5]
print(numbers[3:])  # [4, 5]
print(numbers[:2])  # [1, 2]
print(numbers[::3])  # [1, 4]
print(numbers[::-2])  # [5, 3, 1]
```

5.1.31 Lists as Booleans

```
booleans = [1, 2, 3, 4, 5]
print(booleans[0:3])  # [1, 2, 3]
print(booleans[2:5])  # [3, 4, 5]
print(booleans[3:])  # [4, 5]
print(booleans[:2])  # [1, 2]
print(booleans[::3])  # [1, 4]
print(booleans[::-2])  # [5, 3, 1]
```

5.1.32 Lists as Objects

```
objects = [1, 2, 3, 4, 5]
print(objects[0:3])  # [1, 2, 3]
print(objects[2:5])  # [3, 4, 5]
print(objects[3:])  # [4, 5]
print(objects[:2])  # [1, 2]
print(objects[::3])  # [1, 4]
print(objects[::-2])  # [5, 3, 1]
```

5.1.33 Lists as Functions

```
functions = [1, 2, 3, 4, 5]
print(functions[0:3])  # [1, 2, 3]
print(functions[2:5])  # [3, 4, 5]
print(functions[3:])  # [4, 5]
print(functions[:2])  # [1, 2]
print(functions[::3])  # [1, 4]
print(functions[::-2])  # [5, 3, 1]
```

5.1.34 Lists as Modules

```
modules = [1, 2, 3, 4, 5]
print(modules[0:3])  # [1, 2, 3]
print(modules[2:5])  # [3, 4, 5]
print(modules[3:])  # [4, 5]
print(modules[:2])  # [1, 2]
print(modules[::3])  # [1, 4]
print(modules[::-2])  # [5, 3, 1]
```

5.1.35 Lists as Classes

```
classes = [1, 2, 3, 4, 5]
print(classes[0:3])  # [1, 2, 3]
print(classes[2:5])  # [3, 4, 5]
print(classes[3:])  # [4, 5]
print(classes[:2])  # [1, 2]
print(classes[::3])  # [1, 4]
print(classes[::-2])  # [5, 3, 1]
```

5.1.36 Lists as Exceptions

```
exceptions = [1, 2, 3, 4, 5]
print(exceptions[0:3])  # [1, 2, 3]
print(exceptions[2:5])  # [3, 4, 5]
print(exceptions[3:])  # [4, 5]
print(exceptions[:2])  # [1, 2]
print(exceptions[::3])  # [1, 4]
print(exceptions[::-2])  # [5, 3, 1]
```

5.1.37 Lists as Files

```
files = [1, 2, 3, 4, 5]
print(files[0:3])  # [1, 2, 3]
print(files[2:5])  # [3, 4, 5]
print(files[3:])  # [4, 5]
print(files[:2])  # [1, 2]
print(files[::3])  # [1, 4]
print(files[::-2])  # [5, 3, 1]
```

5.1.38 Lists as Streams

```
streams = [1, 2, 3, 4, 5]
print(streams[0:3])  # [1, 2, 3]
print(streams[2:5])  # [3, 4, 5]
print(streams[3:])  # [4, 5]
print(streams[:2])  # [1, 2]
print(streams[::3])  # [1, 4]
print(streams[::-2])  # [5, 3, 1]
```

5.1.39 Lists as Threads

```
threads = [1, 2, 3, 4, 5]
print(threads[0:3])  # [1, 2, 3]
print(threads[2:5])  # [3, 4, 5]
print(threads[3:])  # [4, 5]
print(threads[:2])  # [1, 2]
print(threads[::3])  # [1, 4]
print(threads[::-2])  # [5, 3, 1]
```

5.1.40 Lists as Processes

```
processes = [1, 2, 3, 4, 5]
print(processes[0:3])  # [1, 2, 3]
print(processes[2:5])  # [3, 4, 5]
print(processes[3:])  # [4, 5]
print(processes[:2])  # [1, 2]
print(processes[::3])  # [1, 4]
print(processes[::-2])  # [5, 3, 1]
```

5.1.41 Lists as Networks

```
networks = [1, 2, 3, 4, 5]
print(networks[0:3])  # [1, 2, 3]
print(networks[2:5])  # [3, 4, 5]
print(networks[3:])  # [4, 5]
print(networks[:2])  # [1, 2]
print(networks[::3])  # [1, 4]
print(networks[::-2])  # [5, 3, 1]
```

5.1.42 Lists as Databases

```
databases = [1, 2, 3, 4, 5]
print(databases[0:3])  # [1, 2, 3]
print(databases[2:5])  # [3, 4, 5]
print(databases[3:])  # [4, 5]
print(databases[:2])  # [1, 2]
print(databases[::3])  # [1, 4]
print(databases[::-2])  # [5, 3, 1]
```

5.1.43 Lists as Systems

```
systems = [1, 2, 3, 4, 5]
print(systems[0:3])  # [1, 2, 3]
print(systems[2:5])  # [3, 4, 5]
print(systems[3:])  # [4, 5]
print(systems[:2])  # [1, 2]
print(systems[::3])  # [1, 4]
print(systems[::-2])  # [5, 3, 1]
```

5.1.44 Lists as Machines

```
machines = [1, 2, 3, 4, 5]
print(machines[0:3])  # [1, 2, 3]
print(machines[2:5])  # [3, 4, 5]
print(machines[3:])  # [4, 5]
print(machines[:2])  # [1, 2]
print(machines[::3])  # [1, 4]
print(machines[::-2])  # [5, 3, 1]
```

5.1.45 Lists as Languages

```
languages = [1, 2, 3, 4, 5]
print(languages[0:3])  # [1, 2, 3]
print(languages[2:5])  # [3, 4, 5]
print(languages[3:])  # [4, 5]
print(languages[:2])  # [1, 2]
print(languages[::3])  # [1, 4]
print(languages[::-2])  # [5, 3, 1]
```

5.1.46 Lists as Protocols

```
protocols = [1, 2, 3, 4, 5]
print(protocols[0:3])  # [1, 2, 3]
print(protocols[2:5])  # [3, 4, 5]
print(protocols[3:])  # [4, 5]
print(protocols[:2])  # [1, 2]
print(protocols[::3])  # [1, 4]
print(protocols[::-2])  # [5, 3, 1]
```

5.1.47 Lists as Standards

```
standards = [1, 2, 3, 4, 5]
print(standards[0:3])  # [1, 2, 3]
print(standards[2:5])  # [3, 4, 5]
print(standards[3:])  # [4, 5]
print(standards[:2])  # [1, 2]
print(standards[::3])  # [1, 4]
print(standards[::-2])  # [5, 3, 1]
```

5.1.48 Lists as Formats

```
formats = [1, 2, 3, 4, 5]
print(formats[0:3])  # [1, 2, 3]
print(formats[2:5])  # [3, 4, 5]
print(formats[3:])  # [4, 5]
print(formats[:2])  # [1, 2]
print(formats[::3])  # [1, 4]
print(formats[::-2])  # [5, 3, 1]
```

5.1.49 Lists as Encodings

```
encodings = [1, 2, 3, 4, 5]
print(encodings[0:3])  # [1, 2, 3]
print(encodings[2:5])  # [3, 4, 5]
print(encodings[3:])  # [4, 5]
print(encodings[:2])  # [1, 2]
print(encodings[::3])  # [1, 4]
print(encodings[::-2])  # [5, 3, 1]
```

5.1.50 Lists as Compressions

```
compressions = [1, 2, 3, 4, 5]
print(compressions[0:3])  # [1, 2, 3]
print(compressions[2:5])  # [3, 4, 5]
print(compressions[3:])  # [4, 5]
print(compressions[:2])  # [1, 2]
print(compressions[::3])  # [1, 4]
print(compressions[::-2])  # [5, 3, 1]
```

5.1.51 Lists as Encryptions

```
encryptions = [1, 2, 3, 4, 5]
print(encryptions[0:3])  # [1, 2, 3]
print(encryptions[2:5])  # [3, 4, 5]
print(encryptions[3:])  # [4, 5]
print(encryptions[:2])  # [1, 2]
print(encryptions[::3])  # [1, 4]
print(encryptions[::-2])  # [5, 3, 1]
```

5.1.52 Lists as Decryptions

```
decryptions = [1, 2, 3, 4, 5]
print(decryptions[0:3])  # [1, 2, 3]
print(decryptions[2:5])  # [3, 4, 5]
print(decryptions[3:])  # [4, 5]
print(decryptions[:2])  # [1, 2]
print(decryptions[::3])  # [1, 4]
print(decryptions[::-2])  # [5, 3, 1]
```

5.1.53 Lists as Hashes

```
hashes = [1, 2, 3, 4, 5]
print(hashes[0:3])  # [1, 2, 3]
print(hashes[2:5])  # [3, 4, 5]
print(hashes[3:])  # [4, 5]
print(hashes[:2])  # [1, 2]
print(hashes[::3])  # [1, 4]
print(hashes[::-2])  # [5, 3, 1]
```

5.1.54 Lists as Checksums

```
checksums = [1, 2, 3, 4, 5]
print(checksums[0:3])  # [1, 2, 3]
print(checksums[2:5])  # [3, 4, 5]
print(checksums[3:])  # [4, 5]
print(checksums[:2])  # [1, 2]
print(checksums[::3])  # [1, 4]
print(checksums[::-2])  # [5, 3, 1]
```

5.1.55 Lists as Signatures

```
signatures = [1, 2, 3, 4, 5]
print(signatures[0:3])  # [1, 2, 3]
print(signatures[2:5])  # [3, 4, 5]
print(signatures[3:])  # [4, 5]
print(signatures[:2])  # [1, 2]
print(signatures[::3])  # [1, 4]
print(signatures[::-2])  # [5, 3, 1]
```

5.1.56 Lists as Certificates

```
certificates = [1, 2, 3, 4, 5]
print(certificates[0:3])  # [1, 2, 3]
print(certificates[2:5])  # [3, 4, 5]
print(certificates[3:])  # [4, 5]
print(certificates[:2])  # [1, 2]
print(certificates[::3])  # [1, 4]
print(certificates[::-2])  # [5, 3, 1]
```

5.1.57 Lists as Keys

```
keys = [1, 2, 3, 4, 5]
print(keys[0:3])  # [1, 2, 3]
print(keys[2:5])  # [3, 4, 5]
print(keys[3:])  # [4, 5]
print(keys[:2])  # [1, 2]
print(keys[::3])  # [1, 4]
print(keys[::-2])  # [5, 3, 1]
```

5.1.58 Lists as Values

```
values = [1, 2, 3, 4, 5]
print(values[0:3])  # [1, 2, 3]
print(values[2:5])  # [3, 4, 5]
print(values[3:])  # [4, 5]
print(values[:2])  # [1, 2]
print(values[::3])  # [1, 4]
print(values[::-2])  # [5, 3, 1]
```

5.1.59 Lists as Types

```
types = [1, 2, 3, 4, 5]
print(types[0:3])  # [1, 2, 3]
print(types[2:5])  # [3, 4, 5]
print(types[3:])  # [4, 5]
print(types[:2])  # [1, 2]
print(types[::3])  # [1, 4]
print(types[::-2])  # [5, 3, 1]
```

5.1.60 Lists as Classes

```
classes = [1, 2, 3, 4, 5]
print(classes[0:3])  # [1, 2, 3]
print(classes[2:5])  # [3, 4, 5]
print(classes[3:])  # [4, 5]
print(classes[:2])  # [1, 2]
print(classes[::3])  # [1, 4]
print(classes[::-2])  # [5, 3, 1]
```

5.1.61 Lists as Objects

```
objects = [1, 2, 3, 4, 5]
print(objects[0:3])  # [1, 2, 3]
print(objects[2:5])  # [3, 4, 5]
print(objects[3:])  # [4, 5]
print(objects[:2])  # [1, 2]
print(objects[::3])  # [1, 4]
print(objects[::-2])  # [5, 3, 1]
```

5.1.62 Lists as Functions

```
functions = [1, 2, 3, 4, 5]
print(functions[0:3])  # [1, 2, 3]
print(functions[2:5])  # [3, 4, 5]
print(functions[3:])  # [4, 5]
print(functions[:2])  # [1, 2]
print(functions[::3])  # [1, 4]
print(functions[::-2])  # [5, 3, 1]
```

5.1.63 Lists as Modules

```
modules = [1, 2, 3, 4, 5]
print(modules[0:3])  # [1, 2, 3]
print(modules[2:5])  # [3, 4, 5]
print(modules[3:])  # [4, 5]
print(modules[:2])  # [1, 2]
print(modules[::3])  # [1, 4]
print(modules[::-2])  # [5, 3, 1]
```

5.1.64 Lists as Exceptions

```
exceptions = [1, 2, 3, 4, 5]
print(exceptions[0:3])  # [1, 2, 3]
print(exceptions[2:5])  # [3, 4, 5]
print(exceptions[3:])  # [4, 5]
print(exceptions[:2])  # [1, 2]
print(exceptions[::3])  # [1, 4]
print(exceptions[::-2])  # [5, 3, 1]
```

5.1.65 Lists as Files

```
files = [1, 2, 3, 4, 5]
print(files[0:3])  # [1, 2, 3]
print(files[2:5])  # [3, 4, 5]
print(files[3:])  # [4, 5]
print(files[:2])  # [1, 2]
print(files[::3])  # [1, 4]
print(files[::-2])  # [5, 3, 1]
```

5.1.66 Lists as Streams

```
streams = [1, 2, 3, 4, 5]
print(streams[0:3])  # [1, 2, 3]
print(streams[2:5])  # [3, 4, 5]
print(streams[3:])  # [4, 5]
print(streams[:2])  # [1, 2]
print(streams[::3])  # [1, 4]
print(streams[::-2])  # [5, 3, 1]
```

5.1.67 Lists as Threads

```
threads = [1, 2, 3, 4, 5]
print(threads[0:3])  # [1, 2, 3]
print(threads[2:5])  # [3, 4, 5]
print(threads[3:])  # [4, 5]
print(threads[:2])  # [1, 2]
print(threads[::3])  # [1, 4]
print(threads[::-2])  # [5, 3, 1]
```

5.1.68 Lists as Processes

```
processes = [1, 2, 3, 4, 5]
print(processes[0:3])  # [1, 2, 3]
print(processes[2:5])  # [3, 4, 5]
print(processes[3:])  # [4, 5]
print(processes[:2])  # [1, 2]
print(processes[::3])  # [1, 4]
print(processes[::-2])  # [5, 3, 1]
```

5.1.69 Lists as Networks

```
networks = [1, 2, 3, 4, 5]
print(networks[0:3])  # [1, 2, 3]
print(networks[2:5])  # [3, 4, 5]
print(networks[3:])  # [4, 5]
print(networks[:2])  # [1, 2]
print(networks[::3])  # [1, 4]
print(networks[::-2])  # [5, 3, 1]
```

5.1.70 Lists as Databases

```
databases = [1, 2, 3, 4, 5]
print(databases[0:3])  # [1, 2, 3]
print(databases[2:5])  # [3, 4, 5]
print(databases[3:])  # [4, 5]
print(databases[:2])  # [1, 2]
print(databases[::3])  # [1, 4]
print(databases[::-2])  # [5, 3, 1]
```

5.1.71 Lists as Systems

```
systems = [1, 2, 3, 4, 5]
print(systems[0:3])  # [1, 2, 3]
print(systems[2:5])  # [3, 4, 5]
print(systems[3:])  # [4, 5]
print(systems[:2])  # [1, 2]
print(systems[::3])  # [1, 4]
print(systems[::-2])  # [5, 3, 1]
```

5.1.72 Lists as Machines

```
machines = [1, 2, 3, 4, 5]
print(machines[0:3])  # [1, 2, 3]
print(machines[2:5])  # [3, 4, 5]
print(machines[3:])  # [4, 5]
print(machines[:2])  # [1, 2]
print(machines[::3])  # [1, 4]
print(machines[::-2])  # [5, 3, 1]
```

5.1.73 Lists as Languages

```
languages = [1, 2, 3, 4, 5]
print(languages[0:3])  # [1, 2, 3]
print(languages[2:5])  # [3, 4, 5]
print(languages[3:])  # [4, 5]
print(languages[:2])  # [1, 2]
print(languages[::3])  # [1, 4]
print(languages[::-2])  # [5, 3, 1]
```

5.1.74 Lists as Protocols

```
protocols = [1, 2, 3, 4, 5]
print(protocols[0:3])  # [1, 2, 3]
print(protocols[2:5])  # [3, 4, 5]
print(protocols[3:])  # [4, 5]
print(protocols[:2])  # [1, 2]
print(protocols[::3])  # [1, 4]
print(protocols[::-2])  # [5, 3, 1]
```

5.1.75 Lists as Standards

```
standards = [1, 2, 3, 4, 5]
print(standards[0:3])  # [1, 2, 3]
print(standards[2:5])  # [3, 4, 5]
print(standards[3:])  # [4, 5]
print(standards[:2])  # [1, 2]
print(standards[::3])  # [1, 4]
print(standards[::-2])  # [5, 3, 1]
```

5.1.76 Lists as Formats

```
formats = [1, 2, 3, 4, 5]
print(formats[0:3])  # [1, 2, 3]
print(formats[2:5])  # [3, 4, 5]
print(formats[3:])  # [4, 5]
print(formats[:2])  # [1, 2]
print(formats[::3])  # [1, 4]
print(formats[::-2])  # [5, 3, 1]
```

5.1.77 Lists as Encodings

```
encodings = [1, 2, 3, 4, 5]
print(encodings[0:3])  # [1, 2, 3]
print(encodings[2:5])  # [3, 4, 5]
print(encodings[3:])  # [4, 5]
print(encodings[:2])  # [1, 2]
print(encodings[::3])  # [1, 4]
print(encodings[::-2])  # [5, 3, 1]
```

5.1.78 Lists as Compressions

```
compressions = [1, 2, 3, 4, 5]
print(compressions[0:3])  # [1, 2, 3]
print(compressions[2:5])  # [3, 4, 5]
print(compressions[3:])  # [4, 5]
print(compressions[:2])  # [1, 2]
print(compressions[::3])  # [1, 4]
print(compressions[::-2])  # [5, 3, 1]
```

5.1.79 Lists as Encryptions

```
encryptions = [1, 2, 3, 4, 5]
print(encryptions[0:3])  # [1, 2, 3]
print(encryptions[2:5])  # [3, 4, 5]
print(encryptions[3:])  # [4, 5]
print(encryptions[:2])  # [1, 2]
print(encryptions[::3])  # [1, 4]
print(encryptions[::-2])  # [5, 3, 1]
```

5.1.80 Lists as Decryptions

```
decryptions = [1, 2, 3, 4, 5]
print(decryptions[0:3])  # [1, 2, 3]
print(decryptions[2:5])  # [3, 4, 5]
print(decryptions[3:])  # [4, 5]
print(decryptions[:2])  # [1, 2]
print(decryptions[::3])  # [1, 4]
print(decryptions[::-2])  # [5, 3, 1]
```

5.1.81 Lists as Hashes

```
hashes = [1, 2, 3, 4, 5]
print(hashes[0:3])  # [1, 2, 3]
print(hashes[2:5])  # [3, 4, 5]
print(hashes[3:])  # [4, 5]
print(hashes[:2])  # [1, 2]
print(hashes[::3])  # [1, 4]
print(hashes[::-2])  # [5, 3, 1]
```

5.1.82 Lists as Checksums

```
checksums = [1, 2, 3, 4, 5]
print(checksums[0:3])  # [1, 2, 3]
print(checksums[2:5])  # [3, 4, 5]
print(checksums[3:])  # [4, 5]
print(checksums[:2])  # [1, 2]
print(checksums[::3])  # [1, 4]
print(checksums[::-2])  # [5, 3, 1]
```

5.1.83 Lists as Signatures

```
signatures = [1, 2, 3, 4, 5]
print(signatures[0:3])  # [1, 2, 3]
print(signatures[2:5])  # [3, 4, 5]
print(signatures[3:])  # [4, 5]
print(signatures[:2])  # [1, 2]
print(signatures[::3])  # [1, 4]
print(signatures[::-2])  # [5, 3, 1]
```

5.1.84 Lists as Certificates

```
certificates = [1, 2, 3, 4, 5]
print(certificates[0:3])  # [1, 2, 3]
print(certificates[2:5])  # [3, 4, 5]
print(certificates[3:])  # [4, 5]
print(certificates[:2])  # [1, 2]
print(certificates[::3])  # [1, 4]
print(certificates[::-2])  # [5, 3, 1]
```

5.1.85 Lists as Keys

```
keys = [1, 2, 3, 4, 5]
print(keys[0:3])  # [1, 2, 3]
print(keys[2:5])  # [3, 4, 5]
print(keys[3:])  # [4, 5]
print(keys[:2])  # [1, 2]
print(keys[::3])  # [1, 4]
print(keys[::-2])  # [5, 3, 1]
```

5.1.86 Lists as Values

```
values = [1, 2, 3, 4, 5]
print(values[0:3])  # [1, 2, 3]
print(values[2:5])  # [3, 4, 5]
print(values[3:])  # [4, 5]
print(values[:2])  # [1, 2]
print(values[::3])  # [1, 4]
print(values[::-2])  # [5, 3, 1]
```

5.1.87 Lists as Types

```
types = [1, 2, 3, 4, 5]
print(types[0:3])  # [1, 2, 3]
print(types[2:5])  # [3, 4, 5]
print(types[3:])  # [4, 5]
print(types[:2])  # [1, 2]
print(types[::3])  # [1, 4]
print(types[::-2])  # [5, 3, 1]
```

5.1.88 Lists as Classes

```
classes = [1, 2, 3, 4, 5]
print(classes[0:3])  # [1, 2, 3]
print(classes[2:5])  # [3, 4, 5]
print(classes[3:])  # [4, 5]
print(classes[:2])  # [1, 2]
print(classes[::3])  # [1, 4]
print(classes[::-2])  # [5, 3, 1]
```

5.1.89 Lists as Objects

```
objects = [1, 2, 3, 4, 5]
print(objects[0:3])  # [1, 2, 3]
print(objects[2:5])  # [3, 4, 5]
print(objects[3:])  # [4, 5]
print(objects[:2])  # [1, 2]
print(objects[::3])  # [1, 4]
print(objects[::-2])  # [5, 3, 1]
```

5.1.90 Lists as Functions

```
functions = [1, 2, 3, 4, 5]
print(functions[0:3])  # [1, 2, 3]
print(functions[2:5])  # [3, 4, 5]
print(functions[3:])  # [4, 5]
print(functions[:2])  # [1, 2]
print(functions[::3])  # [1, 4]
print(functions[::-2])  # [5, 3, 1]
```

5.1.91 Lists as Modules

```
modules = [1, 2, 3, 4, 5]
print(modules[0:3])  # [1, 2, 3]
print(modules[2:5])  # [3, 4, 5]
print(modules[3:])  # [4, 5]
print(modules[:2])  # [1, 2]
print(modules[::3])  # [1, 4]
print(modules[::-2])  # [5, 3, 1]
```

5.1.92 Lists as Exceptions

```
exceptions = [1, 2, 3, 4, 5]
print(exceptions[0:3])  # [1, 2, 3]
print(exceptions[2:5])  # [3, 4, 5]
print(exceptions[3:])  # [4, 5]
print(exceptions[:2])  # [1, 2]
print(exceptions[::3])  # [1, 4]
print(exceptions[::-2])  # [5, 3, 1]
```

5.1.93 Lists as Files

```
files = [1, 2, 3, 4, 5]
print(files[0:3])  # [1, 2, 3]
print(files[2:5])  # [3, 4, 5]
print(files[3:])  # [4, 5]
print(files[:2])  # [1, 2]
print(files[::3])  # [1, 4]
print(files[::-2])  # [5, 3, 1]
```

5.1.94 Lists as Streams

```
streams = [1, 2, 3, 4, 5]
print(streams[0:3])  # [1, 2, 3]
print(streams[2:5])  # [3, 4, 5]
print(streams[3:])  # [4, 5]
print(streams[:2])  # [1, 2]
print(streams[::3])  # [1, 4]
print(streams[::-2])  # [5, 3, 1]
```

5.1.95 Lists as Threads

```
threads = [1, 2, 3, 4, 5]
print(threads[0:3])  # [1, 2, 3]
print(threads[2:5])  # [3, 4, 5]
print(threads[3:])  # [4, 5]
print(threads[:2])  # [1, 2]
print(threads[::3])  # [1, 4]
print(threads[::-2])  # [5, 3, 1]
```

5.1.96 Lists as Processes

```
processes = [1, 2, 3, 4, 5]
print(processes[0:3])  # [1, 2, 3]
print(processes[2:5])  # [3, 4, 5]
print(processes[3:])  # [4, 5]
print(processes[:2])  # [1, 2]
print(processes[::3])  # [1, 4]
print(processes[::-2])  # [5, 3, 1]
```

5.1.97 Lists as Networks

```
networks = [1, 2, 3, 4, 5]
print(networks[0:3])  # [1, 2, 3]
print(networks[2:5])  # [3, 4, 5]
print(networks[3:])  # [4, 5]
print(networks[:2])  # [1, 2]
print(networks[::3])  # [1, 4]
print(networks[::-2])  # [5, 3, 1]
```

5.1.98 Lists as Databases

```
databases = [1, 2, 3, 4, 5]
print(databases[0:3])  # [1, 2, 3]
print(databases[2:5])  # [3, 4, 5]
print(databases[3:])  # [4, 5]
print(databases[:2])  # [1, 2]
print(databases[::3])  # [1, 4]
print(databases[::-2])  # [5, 3, 1]
```

5.1.99 Lists as Systems

```
systems = [1, 2, 3, 4, 5]
print(systems[0:3])  # [1, 2, 3]
print(systems[2:5])  # [3, 4, 5]
print(systems[3:])  # [4, 5]
print(systems[:2])  # [1, 2]
print(systems[::3])  # [1, 4]
print(systems[::-2])  # [5, 3, 1]
```

5.1.100 Lists as Machines

```
machines = [1, 2, 3, 4, 5]
print(machines[0:3])  # [1, 2, 3]
print(machines[2:5])  # [3, 4, 5]
print(machines[3:])  # [4, 5]
print(machines[:2])  # [1, 2]
print(machines[::3])  # [1, 4]
print(machines[::-2])  # [5, 3, 1]
```

5.1.101 Lists as Languages

```
languages = [1, 2, 3, 4, 5]
print(languages[0:3])  # [1, 2, 3]
print(languages[2:5])  # [3, 4, 5]
print(languages[3:])  # [4, 5]
print(languages[:2])  # [1, 2]
print(languages[::3])  # [1, 4]
print(languages[::-2])  # [5, 3, 1]
```

5.1.102 Lists as Protocols

```
protocols = [1, 2, 3, 4, 5]
print(protocols[0:3])  # [1, 2, 3]
print(protocols[2:5])  # [3, 4, 5]
print(protocols[3:])  # [4, 5]
print(protocols[:2])  # [1, 2]
print(protocols[::3])  # [1, 4]
print(protocols[::-2])  # [5, 3, 1]
```

5.1.103 Lists as Standards

```
standards = [1, 2, 3, 4, 5]
print(standards[0:3])  # [1, 2, 3]
print(standards[2:5])  # [3, 4, 5]
print(standards[3:])  # [4, 5]
print(standards[:2])  # [1, 2]
print(standards[::3])  # [1, 4]
print(standards[::-2])  # [5, 3, 1]
```

5.1.104 Lists as Formats

```
formats = [1, 2, 3, 4, 5]
print(formats[0:3])  # [1, 2, 3]
print(formats[2:5])  # [3, 4, 5]
print(formats[3:])  # [4, 5]
print(formats[:2])  # [1, 2]
print(formats[::3])  # [1, 4]
print(formats[::-2])  # [5, 3, 1]
```

5.1.105 Lists as Encodings

```
encodings = [1, 2, 3, 4, 5]
print(encodings[0:3])  # [1, 2, 3]
print(encodings[2:5])  # [3, 4, 5]
print(encodings[3:])  # [4, 5]
print(encodings[:2])  # [1, 2]
print(encodings[::3])  # [1, 4]
print(encodings[::-2])  # [5, 3, 1]
```

5.1.106 Lists as Compressions

```
compressions = [1, 2, 3, 4, 5]
print(compressions[0:3])  # [1, 2, 3]
print(compressions[2:5])  # [3, 4, 5]
print(compressions[3:])  # [4, 5]
print(compressions[:2])  # [1, 2]
print(compressions[::3])  # [1, 4]
print(compressions[::-2])  # [5, 3, 1]
```

5.1.107 Lists as Encryptions

```
encryptions = [1, 2, 3, 4, 5]
print(encryptions[0:3])  # [1, 2, 3]
print(encryptions[2:5])  # [3, 4, 5]
print(encryptions[3:])  # [4, 5]
print(encryptions[:2])  # [1, 2]
print(encryptions[::3])  # [1, 4]
print(encryptions[::-2])  # [5, 3, 1]
```

5.1.108 Lists as Decryptions

```
decryptions = [1, 2, 3, 4, 5]
print(decryptions[0:3])  # [1, 2, 3]
print(decryptions[2:5])  # [3, 4, 5]
print(decryptions[3:])  # [4, 5]
print(decryptions[:2])  # [1, 2]
print(decryptions[::3])  # [1, 4]
print(decryptions[::-2])  # [5, 3, 1]
```

5.1.109 Lists as Hashes

```
hashes = [1, 2, 3, 4, 5]
print(hashes[0:3])  # [1, 2, 3]
print(hashes[2:5])  # [3, 4, 5]
print(hashes[3:])  # [4, 5]
print(hashes[:
```

```
[{"id": 1,
"name": "Ms. Ms. Ms.
```

[illegible]

[illegible]

[illegible]

```
[0.0, 0.0, 0.0, 
```

[illegal_char_error_1]
[illegal_char_error_2]
[illegal_char_error_3]
[illegal_char_error_4]
[illegal_char_error_5]
[illegal_char_error_6]
[illegal_char_error_7]
[illegal_char_error_8]
[illegal_char_error_9]
[illegal_char_error_10]
[illegal_char_error_11]
[illegal_char_error_12]
[illegal_char_error_13]
[illegal_char_error_14]
[illegal_char_error_15]
[illegal_char_error_16]
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The Lamp of Experience(1)

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GIFT OF MRS. ELIZABETH M. CLARK
GIFT OF MRS. ELIZABETH M. CLARK

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1.2 Basic concepts

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1.4 Basic concepts

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1.13 Basic concepts

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1.14 Basic concepts

[illegible]

1.15 Basic concepts

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1.17 Basic concepts

[illegible]

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The Lamp of Experimentation 11

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Image Enhancement

[illegible]

2.2 Data Collection

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2.3 Data Cleaning

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2.4 Data Analysis

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2.5 Data Visualization

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2.6 Data Interpretation

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2.7 Data Conclusion

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2.8 Data Recommendation

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2.9 Data Limitations

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2.10 Data Future Research

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2.11 Data Conclusion

[illegible]

2.12 Data Recommendation

[illegible]

2.13 Data Limitations

[illegible]

2.14 Data Future Research

[illegible]

2.15 Data Conclusion

[illegible]

2.16 Data Recommendation

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2.17 Data Limitations

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2.18 Data Future Research

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2.19 Data Conclusion

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2.20 Data Recommendation

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2.21 Data Limitations

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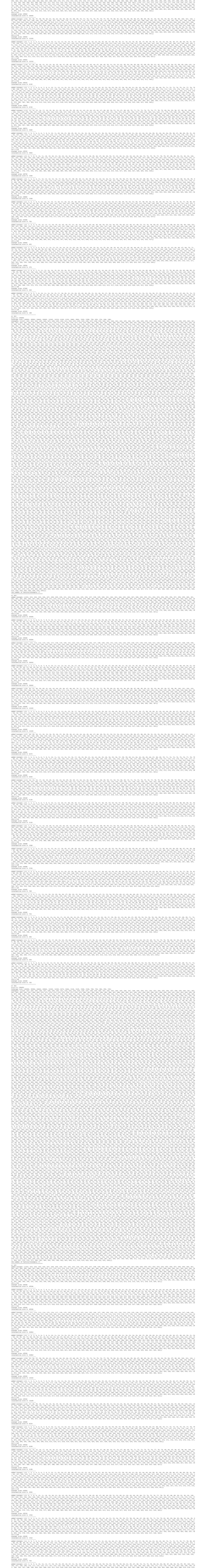

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Chapter 1 Introduction

1.1 Overview

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1.2 Background

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Chapter 6 Lorem ipsum dolor sit amet

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Chapter 7 Lorem ipsum dolor sit amet

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Carbon Tax Incidence in Industrial Economies

Hannah Lowe, Sofia Ramos, Tomas Ellis, Ingrid Sato, Kevin Mendoza, Aisha Rahman, Pedro Vega, Nina Kowalski, Ahmed Bakr, Sara Lopez, Jonathan Reed, Mei Tanaka, Ravi Sundaram, Elena Petrova, Carlos Mendoza, Yuki Hayashi, Omar Khalil

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Section 1.10.32 of "de finibus bonorum et malorum", written by Cicero in 45 BC

"Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur?"

1914 translation by H. Rackham

"But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness. No one rejects, dislikes, or avoids pleasure itself, because it is pleasure, but because those who do not know how to pursue pleasure rationally encounter consequences that are extremely painful. Nor again is there anyone who loves or pursues or desires to obtain pain of itself, because it is pain, but because occasionally circumstances occur in which toil and pain can procure him some great pleasure. To take a trivial example, which of us ever undertakes laborious physical exercise, except to obtain some advantage from it? But who has any right to find fault with a man who chooses to enjoy a pleasure that has no annoying consequences, or one who avoids a pain that produces no resultant pleasure?"

Section 1.10.33 of "de finibus bonorum et malorum", written by Cicero in 45 BC

"At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum facilis est et expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit quo minus id quod maxime placeat facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum hic tenetur a sapiente delectus, ut aut reiciendis voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat."

1914 translation by H. Rackham

"On the other hand, we denounce with righteous indignation and dislike men who are so beguiled and demoralized by the charms of pleasure of the moment, so blinded by desire, that they cannot foresee the pain and trouble that are bound to ensue; and equal blame belongs to those who fail in their duty through weakness of will, which is same as saying through shrinking from toil and pain. These cases are perfectly simple and easy to distinguish. In a free hour, when our power of choice is untrammelled and when nothing prevents our being able to do what we like best, every pleasure is to be welcomed and every pain avoided. But in certain circumstances and owing to the claims of duty or obligation of business it will frequently occur that pleasures have to be repudiated and annoyances accepted. The wise man therefore always holds in these matters to this principle of selection: he rejects pleasures to secure other greater pleasures, or else he endures pains to avoid worse pains."

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