Exercício 3

```
[Running] python -u "c:\Users\Kesley Wilie\COMPASS\SPRINT 8\Exe3\Geracao.py"
Lista original: [261, 452, 428, 766, 797, 910, 128, 626, 152, 146, 958, 255, 925, 634, 944, 163, 604, 228, 83, 969, 790, 939, 28, 451, 356,
271, 662, 693, 462, 675, 358, 477, 314, 611, 235, 804, 552, 711, 631, 337, 498, 299, 922, 577, 291, 13, 90, 417, 486, 479, 573, 871, 545,
418, 296, 715, 908, 933, 16, 521, 731, 669, 85, 930, 942, 947, 775, 249, 31, 263, 784, 278, 89, 265, 309, 854, 339, 99, 934, 827, 595, 251,
511, 633, 79, 410, 300, 342, 519, 707, 880, 275, 204, 279, 262, 416, 408, 832, 490, 198, 682, 667, 7, 126, 801, 377, 247, 285, 906, 41, 200,
38, 594, 250, 104, 117, 833, 17, 320, 954, 12, 792, 685, 907, 455, 923, 242, 509, 396, 988, 504, 311, 145, 466, 737, 785, 717, 425, 763,
236, 343, 837, 565, 534, 955, 524, 864, 321, 566, 754, 728, 229, 625, 983, 640, 713, 799, 917, 643, 173, 20, 512, 482, 781, 368, 649, 579,
470, 547, 115, 71, 656, 549, 33, 555, 158, 990, 409, 238, 298, 439, 391, 694, 100, 920, 211, 122, 438, 855, 767, 161, 95, 237, 664, 55, 74,
290, 583, 569, 5, 315, 745, 221, 516, 60, 387, 510, 937, 991, 765, 705, 45, 551, 362, 328, 916, 120, 632, 326, 812, 289, 959, 697, 672, 256,
390, 992, 977, 850, 30, 999, 467, 91, 380, 219, 688, 860, 119, 538, 106, 841, 690, 217, 750, 847, 654, 868, 606, 80, 753]
Lista invertida: [753, 80, 606, 868, 654, 847, 750, 217, 690, 841, 106, 538, 119, 860, 688, 219, 380, 91, 467, 999, 30, 850, 977, 992, 390,
256, 672, 697, 959, 289, 812, 326, 632, 120, 916, 328, 362, 551, 45, 705, 765, 991, 937, 510, 387, 60, 516, 221, 745, 315, 5, 569, 583, 290,
74, 55, 664, 237, 95, 161, 767, 855, 438, 122, 211, 920, 100, 694, 391, 439, 298, 238, 409, 990, 158, 555, 33, 549, 656, 71, 115, 547, 470,
579, 649, 368, 781, 482, 512, 20, 173, 643, 917, 799, 713, 640, 983, 625, 229, 728, 754, 566, 321, 864, 524, 955, 534, 565, 837, 343, 236,
763, 425, 717, 785, 737, 466, 145, 311, 504, 988, 396, 509, 242, 923, 455, 907, 685, 792, 12, 954, 320, 17, 833, 117, 104, 250, 594, 38,
200, 41, 906, 285, 247, 377, 801, 126, 7, 667, 682, 198, 490, 832, 408, 416, 262, 279, 204, 275, 880, 707, 519, 342, 300, 410, 79, 633, 511,
251, 595, 827, 934, 99, 339, 854, 309, 265, 89, 278, 784, 263, 31, 249, 775, 947, 942, 930, 85, 669, 731, 521, 16, 933, 908, 715, 296, 418,
545, 871, 573, 479, 486, 417, 90, 13, 291, 577, 922, 299, 498, 337, 631, 711, 552, 804, 235, 611, 314, 477, 358, 675, 462, 693, 662, 271,
356, 451, 28, 939, 790, 969, 83, 228, 604, 163, 944, 634, 925, 255, 958, 146, 152, 626, 128, 910, 797, 766, 428, 452, 261]
Animais ordenados: ['Ar◆ra', 'Avestruz', 'Baleia', 'Cachorro', 'Cobra', 'Crocodilo', 'Elefante', 'Gato', 'Girafa', 'Gorila', 'Hipop◆tamo',
'Le◆o', 'Macaco', 'Panda', 'Pinguim', 'Rato', 'Tigre', 'Tubar◆o', 'Urso', 'Zebra']
```

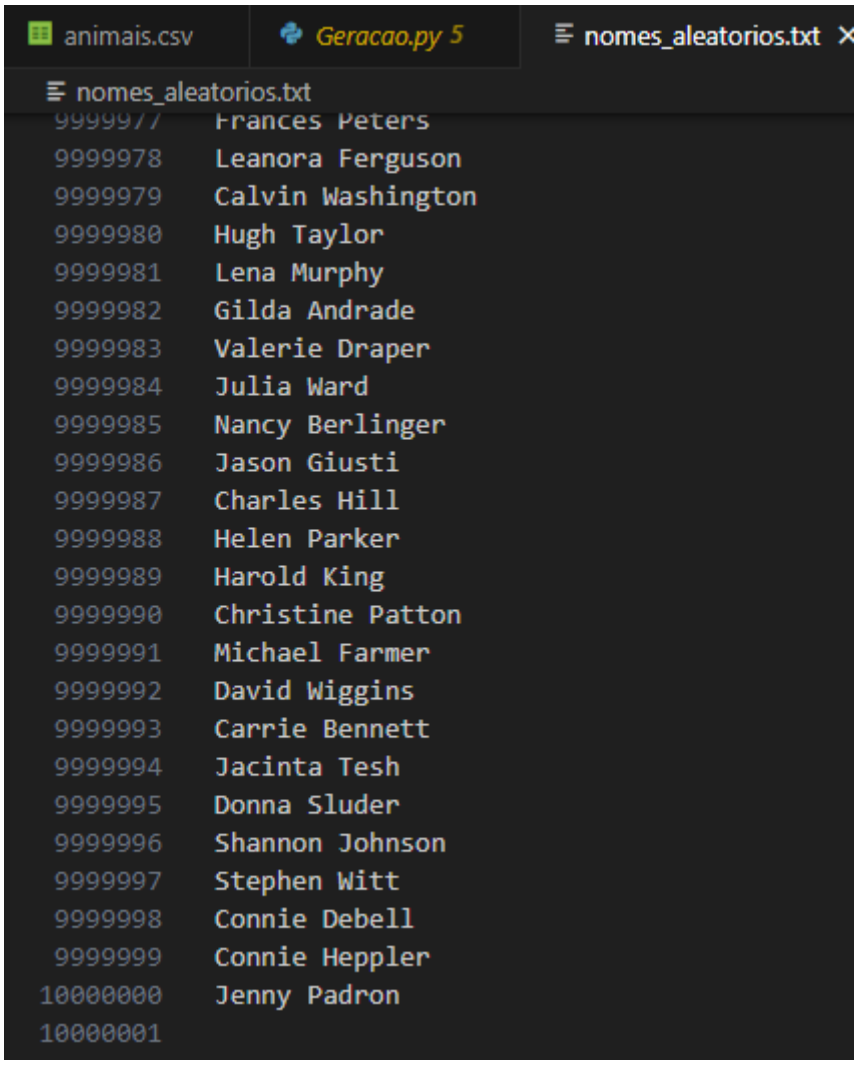
animais.csv

Exe3 > animais.csv

```
1   Ar◆ra
2   Avestruz
3   Baleia
4   Cachorro
5   Cobra
6   Crocodilo
7   Elefante
8   Gato
9   Girafa
10  Gorila
11  Hipop◆tamo
12  Le◆o
13  Macaco
14  Panda
15  Pinguim
16  Rato
17  Tigre
18  Tubar◆o
19  Urso
20  Zebra
```

```python
import random
import time
import os
import names

# [Warm up] Lista de 250 inteiros aleatórios e inversão
lista_inteiros = random.sample(range(1, 1001), 250)
print("Lista original:", lista_inteiros)
lista_inteiros.reverse()
print("Lista invertida:", lista_inteiros)
```

```python
# [Warm up] Lista de 20 animais, ordenação e gravação em arquivo CSV
lista_animais = ["Cachorro", "Gato", "Elefante", "Leão", "Tigre",
"Girafa", "Zebra", "Cobra", "Macaco", "Panda", "Urso", "Rato", "Gorila",
"Hipopótamo", "Pinguim", "Tubarão", "Arára", "Avestruz", "Baleia",
"Crocodilo"]

lista_animais.sort()
print("Animais ordenados:", [animal for animal in lista_animais])

# Gravando em arquivo CSV
with open("animais.csv", "w") as arquivo_csv:
    for animal in lista_animais:
        arquivo_csv.write(animal + "\n")

# [Laboratório] Gerar dataset de nomes de pessoas
random.seed(40)
qtd_nomes_unicos = 3000
qtd_nomes_aleatorios = 10000000

# Gerar nomes únicos
nomes_unicos = [names.get_full_name() for _ in range(qtd_nomes_unicos)]

# Gerar dataset de nomes aleatórios
dados = [random.choice(nomes_unicos) for _ in
range(qtd_nomes_aleatorios)]

# Gravar em arquivo de texto
with open("nomes_aleatorios.txt", "w") as arquivo_nomes:
    for nome in dados:
        arquivo_nomes.write(nome + "\n")

# Verificar conteúdo do arquivo
with open("nomes_aleatorios.txt", "r") as arquivo_nomes:
    conteudo = arquivo_nomes.read()
    print("Conteúdo do arquivo:\n", conteudo)
```


animais.csv
Geracao.py 5
nomes_aleatorios.txt
nomes_aleatorios.txt
9999977 Frances Peters
9999978 Leanora Ferguson
9999979 Calvin Washington
9999980 Hugh Taylor
9999981 Lena Murphy
9999982 Gilda Andrade
9999983 Valerie Draper
9999984 Julia Ward
9999985 Nancy Berlinger
9999986 Jason Giusti
9999987 Charles Hill
9999988 Helen Parker
9999989 Harold King
9999990 Christine Patton
9999991 Michael Farmer
9999992 David Wiggins
9999993 Carrie Bennett
9999994 Jacinta Tesh
9999995 Donna Sluder
9999996 Shannon Johnson
9999997 Stephen Witt
9999998 Connie Debell
9999999 Connie Heppler
10000000 Jenny Padron
10000001