Tests Randomness Of Codes

Choose random generator:
Sound random generator

Choose test name:
Frequency Test (Chi-Squared)

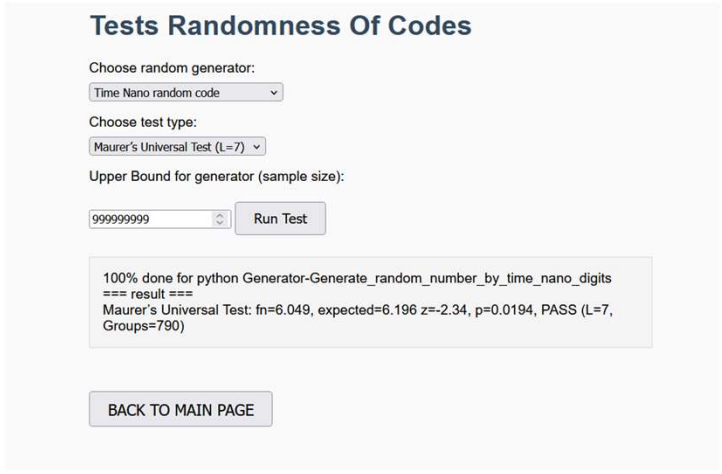
Number of Samples:
500 ((generator_name ~time_sec_in_my_computer/amount_samples) (javathread ~18s/100), (import_random ~3s/10,000), (sound ~9s/100) (time ~16s/1000)

Upper Bound for generator:
999999 (time_generator max_upper_bound is 999999) (sound_generator max_upper_bound is 10^18) (java_thread max_upper_bound is 2147483647 (int))

Run Test Stop test

Status: Done
Result: 0s=4709, 1s=4732, p=0.8129, PASS
(Test finished)

BACK TO MAIN PAGE



http://127.0.0.1:5000/tests?

Tests Randomness Of Codes

Choose random generator:
(import random) generator

Choose test name:
Frequency Test (Chi-Squared)

Number of Samples:
1000 ((generator_name ~time_sec_in_my_computer/amount_samples) (javathread ~18s/100), (import_random ~3s/10,000), (sound ~9s/100) (time ~16s/1000)

Upper Bound for generator:
999999 (time_generator max_upper_bound is 999999) (sound_generator max_upper_bound is 10^18) (java_thread max_upper_bound is 2147483647 (int))

Run Test Stop test

Status: Done
Result: 0s=9097, 1s=9893, p=0.0000, FAIL
(Test finished)

BACK TO MAIN PAGE

ניתן לראות בתמונה שאלגוריתם מהספרייה
import random
לא עבר את המבחן המודד רנדומליות

http://127.0.0.1:5000

Direct execution of a random generator

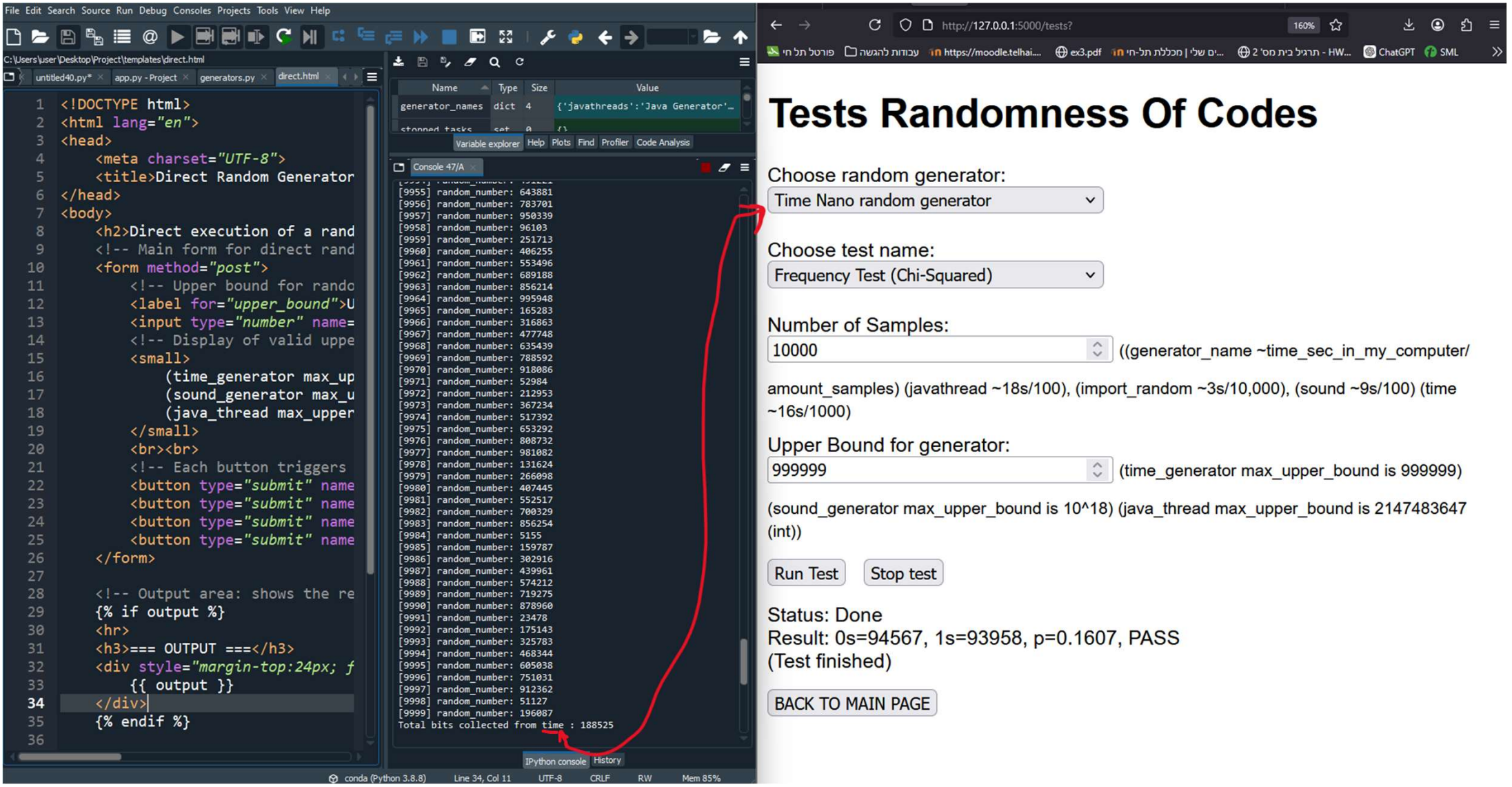
Upper Bound: 2147483647 (time_generator max_upper_bound is 999999) (sound_generator max_upper_bound is 10^18) (java_thread max_upper_bound is 2147483647 (int))

Generate Random Number (Java threads) Generate Random Number (Time Nano) Generate Random Number (Sound code) Generate Random Number (import random)

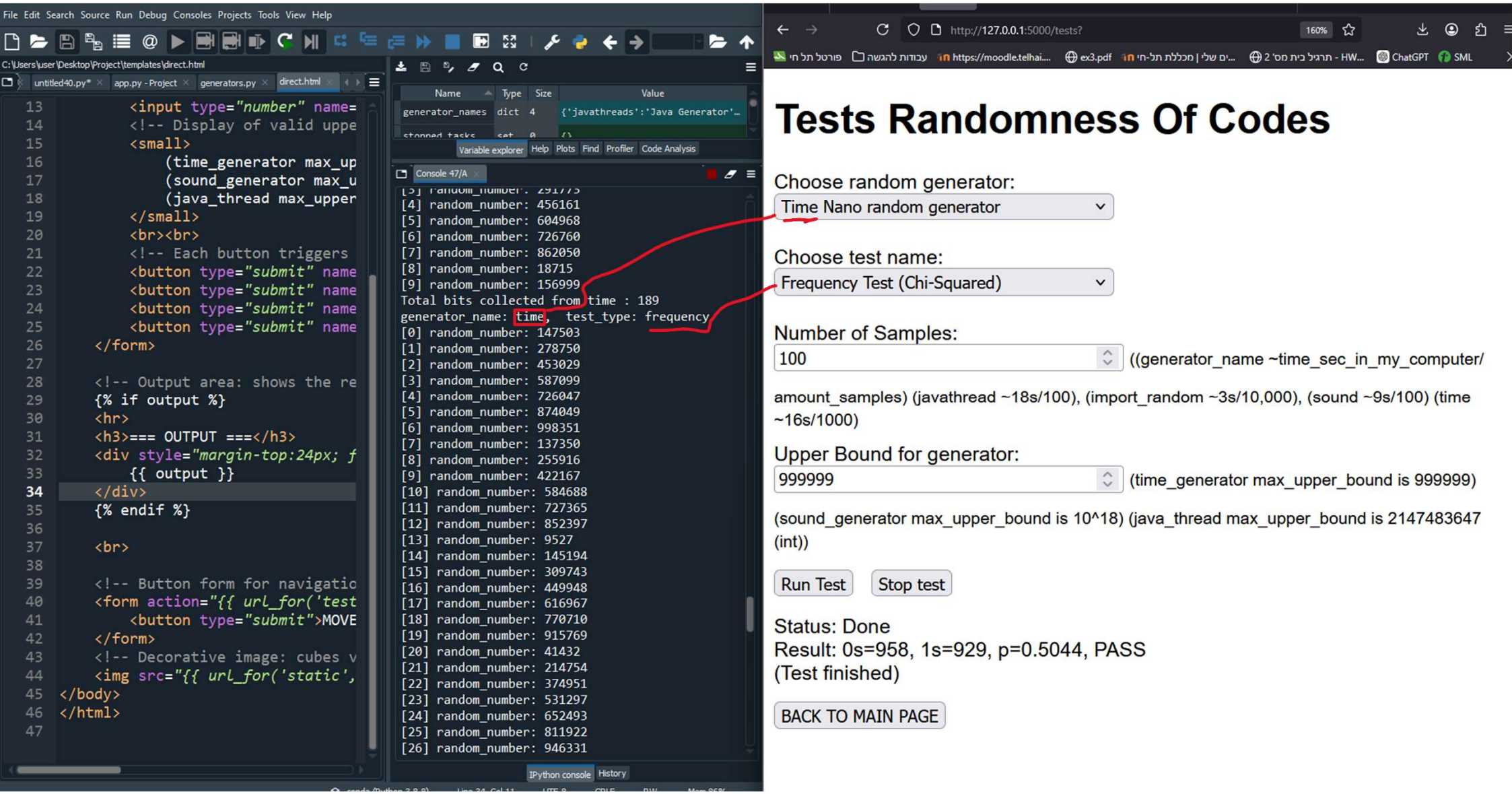
=== OUTPUT ===

Java Generator 2080708080

MOVE TO TESTS PAGE


File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\user\Desktop\Project\templates\direct.html
untitled40.py*
app.py - Project
generators.py
direct.html
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <title>Direct Random Generator
6 </head>
7 <body>
8 <h2>Direct execution of a rand
9 <!-- Main form for direct rand
10 <form method="post">
11 <!-- Upper bound for rando
12 <label for="upper_bound">U
13 <input type="number" name=
14 <!-- Display of valid uppe
15 <small>
16 (time_generator max_up
17 (sound_generator max_u
18 (java_thread max_upper
19 </small>
20

21 <!-- Each button triggers
22 <button type="submit" name
23 <button type="submit" name
24 <button type="submit" name
25 <button type="submit" name
26 </form>
27
28 <!-- Output area: shows the re
29 {% if output %}
30 <hr>
31 <h3>=== OUTPUT ===</h3>
32 <div style="margin-top:24px; f
33 {{ output }}
34
35 {% endif %}
36
Name
Type
Size
Value
generator_names
dict 4
{'javathreads':'Java Generator'...
Variable explorer
Help
Plots
Find
Profiler
Code Analysis
Console 47/A
[9955] random_number: 643881
[9956] random_number: 783701
[9957] random_number: 950339
[9958] random_number: 96103
[9959] random_number: 251713
[9960] random_number: 406255
[9961] random_number: 553496
[9962] random_number: 689188
[9963] random_number: 856214
[9964] random_number: 995948
[9965] random_number: 165283
[9966] random_number: 316863
[9967] random_number: 477748
[9968] random_number: 635439
[9969] random_number: 788592
[9970] random_number: 918086
[9971] random_number: 52984
[9972] random_number: 212953
[9973] random_number: 367234
[9974] random_number: 517392
[9975] random_number: 653292
[9976] random_number: 808732
[9977] random_number: 981082
[9978] random_number: 131624
[9979] random_number: 266098
[9980] random_number: 407445
[9981] random_number: 552517
[9982] random_number: 700329
[9983] random_number: 856254
[9984] random_number: 5155
[9985] random_number: 159787
[9986] random_number: 302916
[9987] random_number: 439961
[9988] random_number: 574212
[9989] random_number: 719275
[9990] random_number: 878960
[9991] random_number: 23478
[9992] random_number: 175143
[9993] random_number: 325783
[9994] random_number: 468344
[9995] random_number: 605038
[9996] random_number: 751031
[9997] random_number: 912362
[9998] random_number: 51127
[9999] random_number: 196087
Total bits collected from time : 188525
IPython console
History
conda (Python 3.8.8)
Line 34, Col 11
UTF-8
CRLF
RW
Mem 85%
http://127.0.0.1:5000/tests?
160%
ChatGPT
SML
Tests Randomness Of Codes
Choose random generator:
Time Nano random generator
Choose test name:
Frequency Test (Chi-Squared)
Number of Samples:
10000
((generator_name ~time_sec_in_my_computer/
amount_samples) (javathread ~18s/100), (import_random ~3s/10,000), (sound ~9s/100) (time
~16s/1000)
Upper Bound for generator:
999999
(time_generator max_upper_bound is 999999)
(sound_generator max_upper_bound is 10^18) (java_thread max_upper_bound is 2147483647
(int))
Run Test
Stop test
Status: Done
Result: 0s=94567, 1s=93958, p=0.1607, PASS
(Test finished)
BACK TO MAIN PAGE


File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\user\Desktop\Project\templates\direct.html
untitled40.py*
app.py - Project
generators.py
direct.html
<input type="number" name=
<!-- Display of valid uppe
<small>
(time_generator max_up
(sound_generator max_u
(java_thread max_upper
</small>

<!-- Each button triggers
<button type="submit" name
<button type="submit" name
<button type="submit" name
<button type="submit" name
</form>
<!-- Output area: shows the re
{% if output %}
<hr>
<h3>=== OUTPUT ===</h3>
<div style="margin-top:24px; f
{{ output }}

{% endif %}

<!-- Button form for navigatio
<form action="{{ url_for('test
<button type="submit">MOVE
</form>
<!-- Decorative image: cubes v
<img src="{{ url_for('static',
</body>
</html>
Name
Type
Size
Value
generator_names
dict
4
{'javathreads':'Java Generator'...
Variable explorer
Help
Plots
Find
Profiler
Code Analysis
Console 47/A
[4] random_number: 456161
[5] random_number: 604968
[6] random_number: 726760
[7] random_number: 862050
[8] random_number: 18715
[9] random_number: 156999
Total bits collected from time : 189
generator_name: time, test_type: frequency
[0] random_number: 147503
[1] random_number: 278750
[2] random_number: 453029
[3] random_number: 587099
[4] random_number: 726047
[5] random_number: 874049
[6] random_number: 998351
[7] random_number: 137350
[8] random_number: 255916
[9] random_number: 422167
[10] random_number: 584688
[11] random_number: 727365
[12] random_number: 852397
[13] random_number: 9527
[14] random_number: 145194
[15] random_number: 309743
[16] random_number: 449948
[17] random_number: 616967
[18] random_number: 770710
[19] random_number: 915769
[20] random_number: 41432
[21] random_number: 214754
[22] random_number: 374951
[23] random_number: 531297
[24] random_number: 652493
[25] random_number: 811922
[26] random_number: 946331
IPython console
History
http://127.0.0.1:5000/tests?
160%
Tests Randomness Of Codes
Choose random generator:
Time Nano random generator
Choose test name:
Frequency Test (Chi-Squared)
Number of Samples:
100
((generator_name ~time_sec_in_my_computer/
amount_samples) (javathread ~18s/100), (import_random ~3s/10,000), (sound ~9s/100) (time ~16s/1000)
Upper Bound for generator:
999999
(time_generator max_upper_bound is 999999)
(sound_generator max_upper_bound is 10^18) (java_thread max_upper_bound is 2147483647 (int))
Run Test
Stop test
Status: Done
Result: 0s=958, 1s=929, p=0.5044, PASS
(Test finished)
BACK TO MAIN PAGE