Exercise 10

Random Number List (CPU)

Random Number Generation on GPU

Quality of the Random Numbers

```
1  CHECKING STATISICAL QUALITY
2
3  Numbers generated: 94018297425968, in the interval betweene 0
       and 1
4  checking number of values in the given intervals:
5
6  Bin 0 (Range 0 to 0.1): 1000288 10.00%
7  Bin 1 (Range 0.10 to 0.20): 1000191 10.00%
8  Bin 2 (Range 0.20 to 0.30): 999293 9.99%
9  Bin 3 (Range 0.30 to 0.40): 1002224 10.02%
10 Bin 4 (Range 0.40 to 0.50): 997971 9.98%
11 Bin 5 (Range 0.50 to 0.60): 998875 9.99%
12 Bin 6 (Range 0.60 to 0.70): 999221 9.99%
13 Bin 7 (Range 0.70 to 0.80): 1000107 10.00%
14 Bin 8 (Range 0.80 to 0.90): 1001703 10.02%
15 Bin 9 (Range 0.90 to 1.00): 1000127 10.00%
16
17 Mean: 0.500015
```