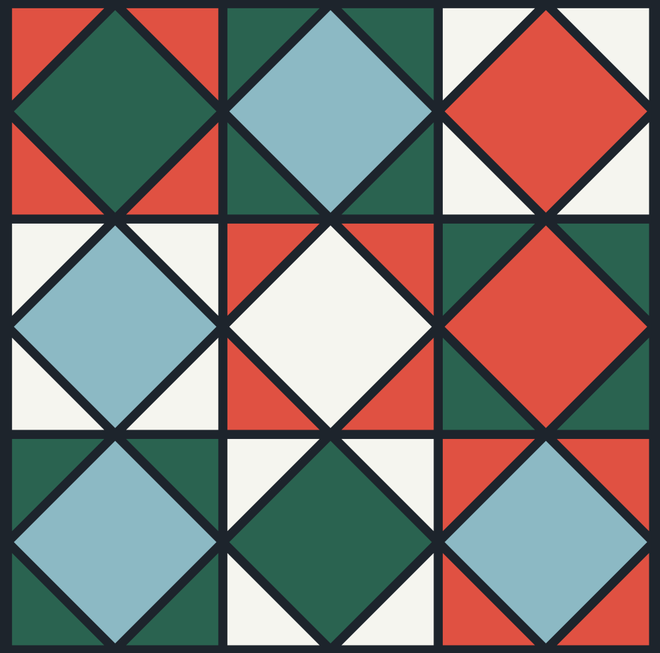
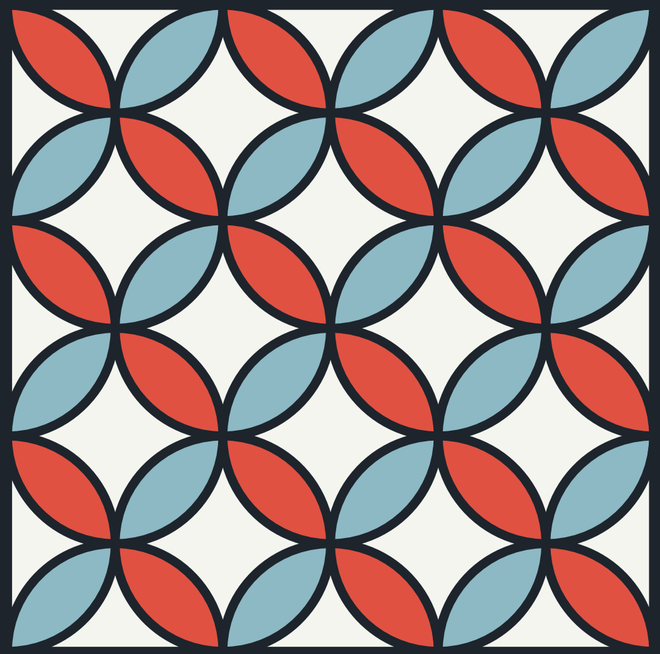
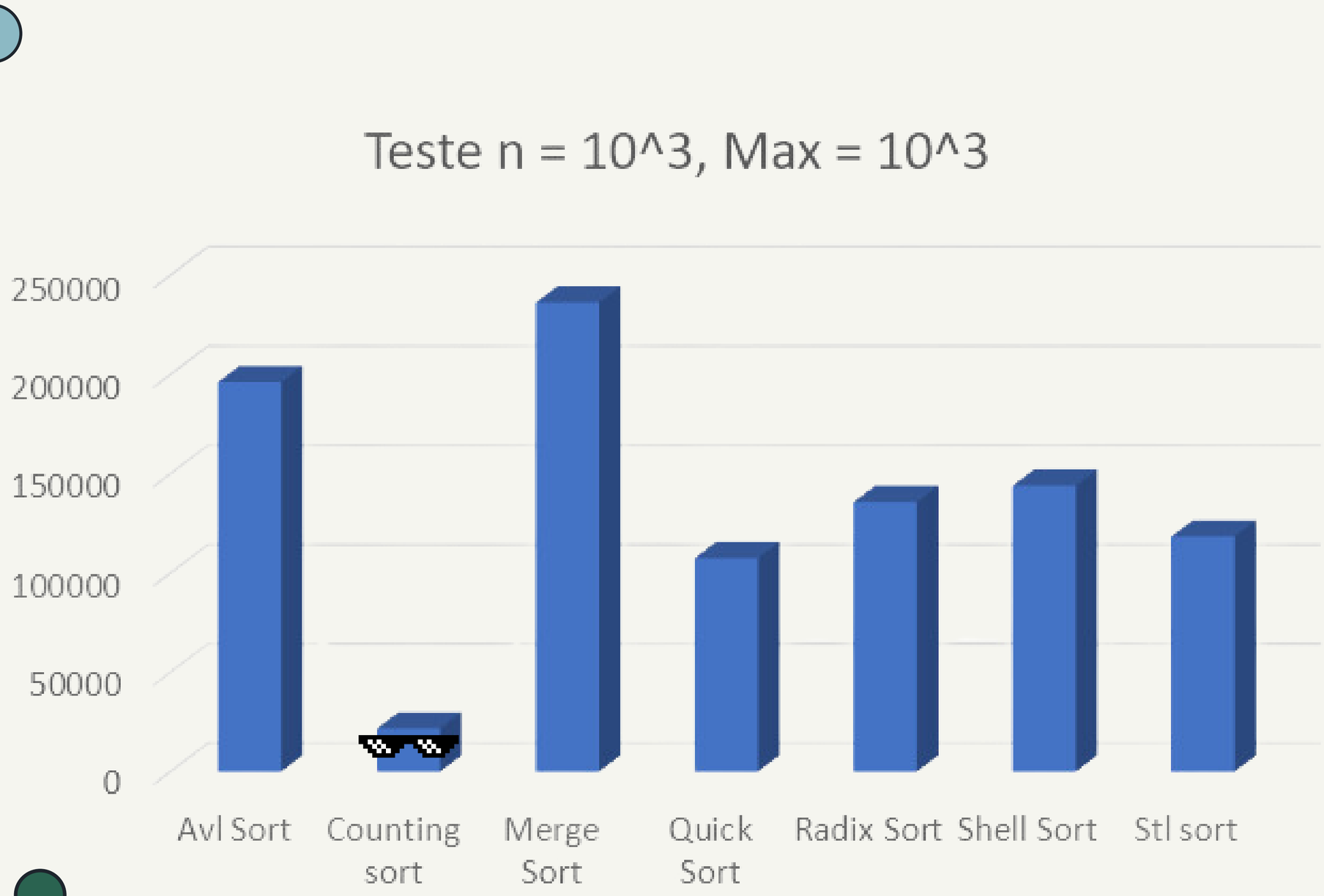
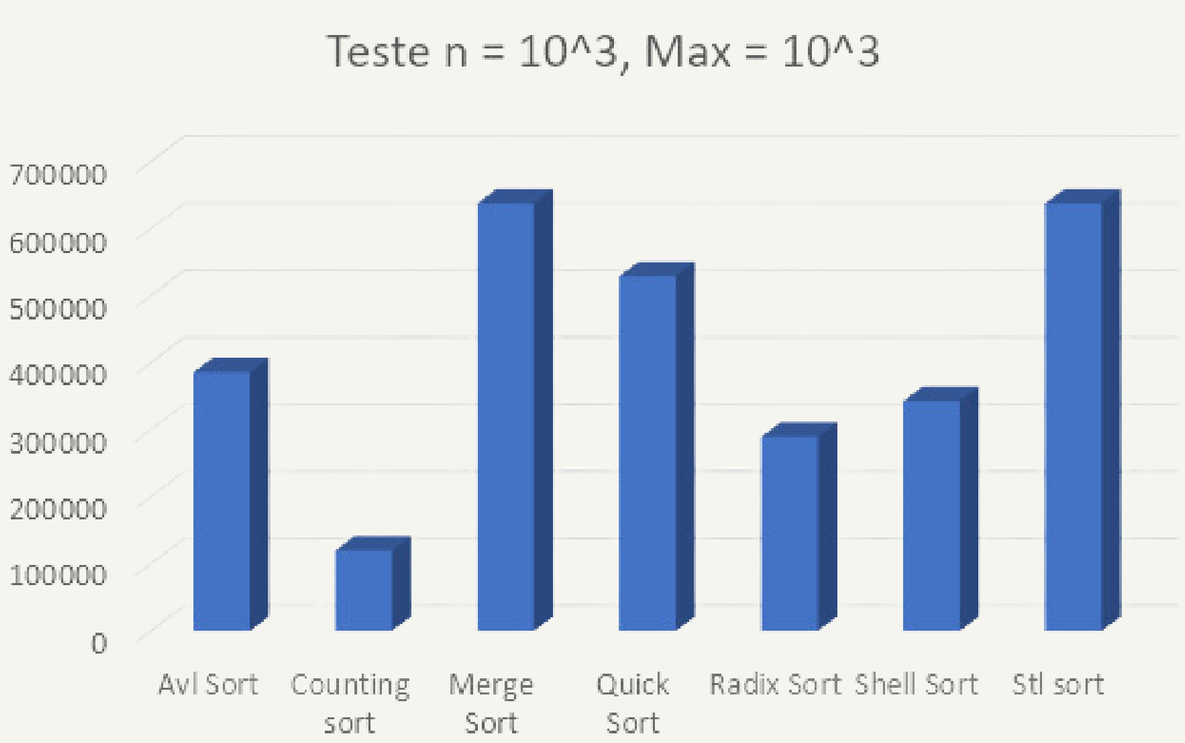
SORTĂRI



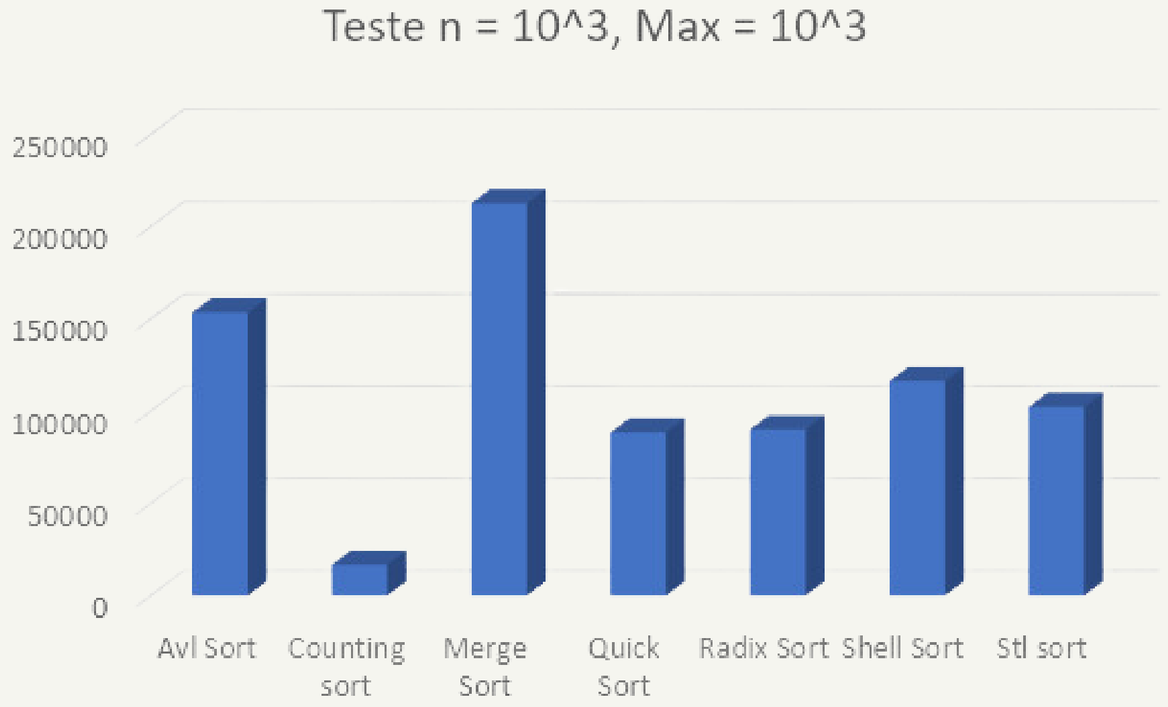



Teste n = 10^3, Max = 10^3
250000
200000
150000
100000
50000
0
Avl Sort
Counting sort
Merge Sort
Quick Sort
Radix Sort
Shell Sort
Stl sort

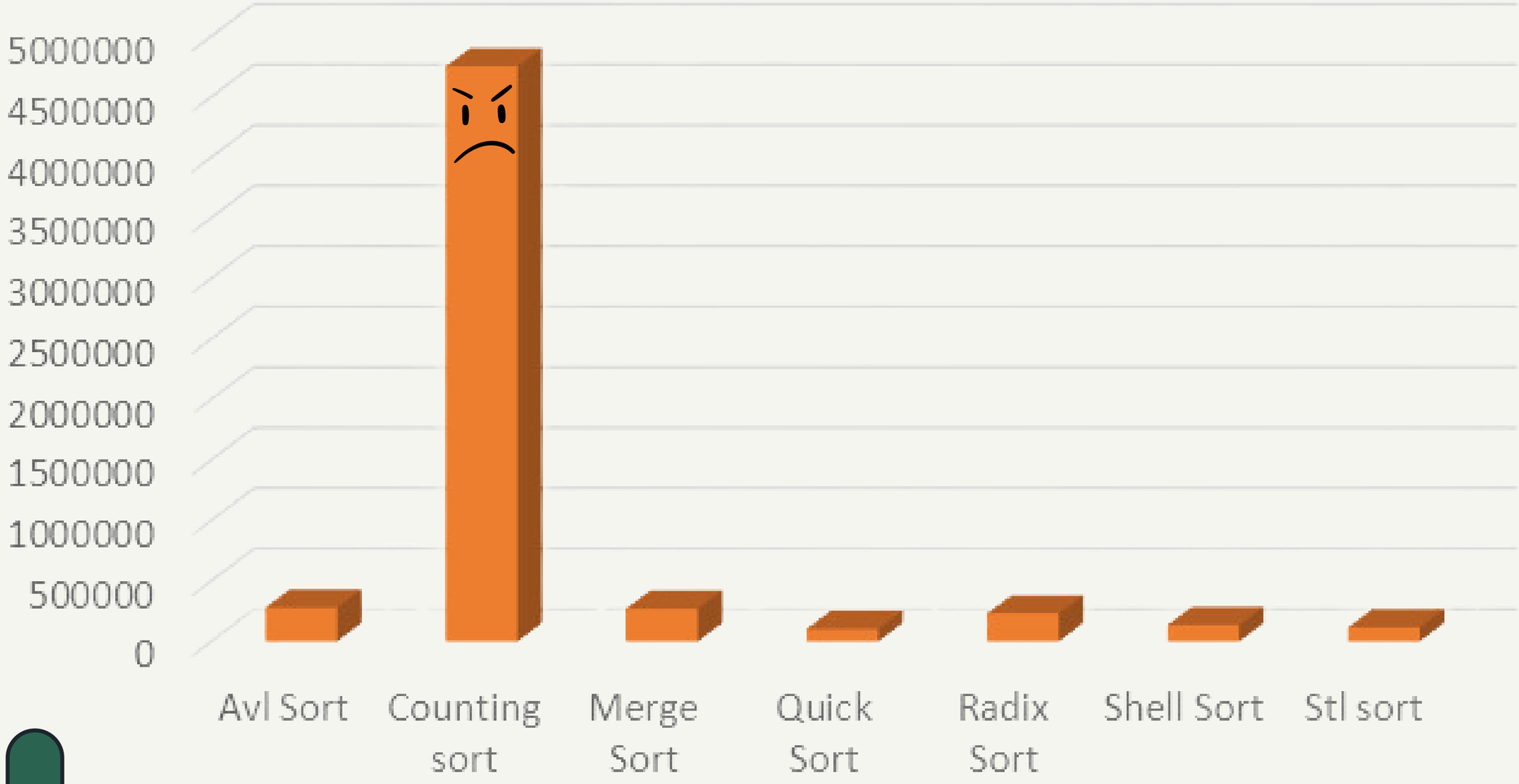
Worst case



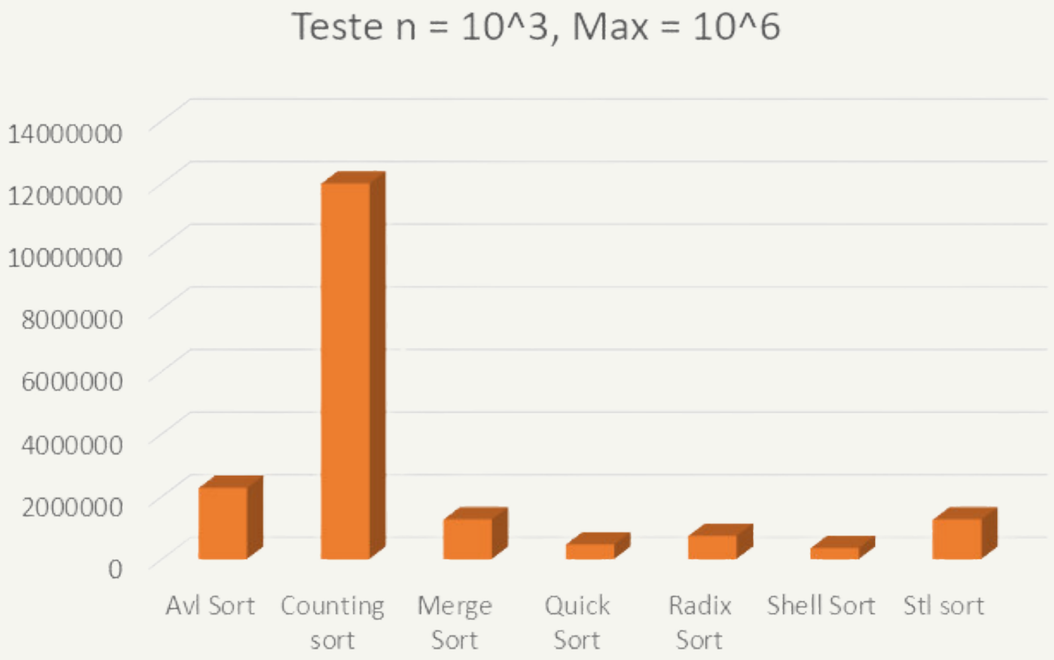
Best Case



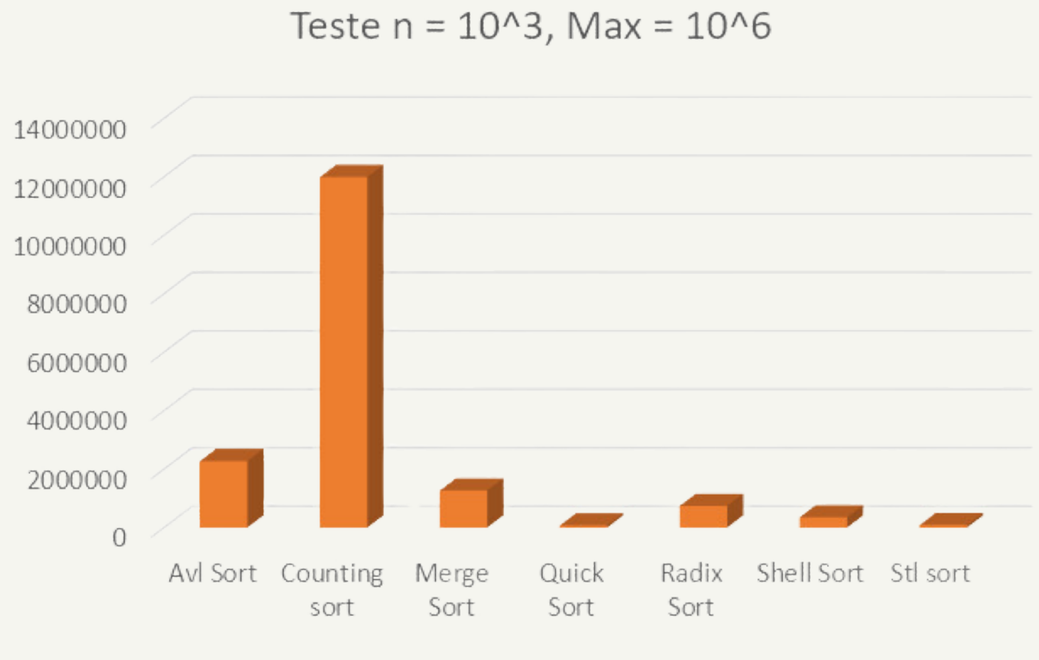
Teste n = 10^3, Max = 10^6



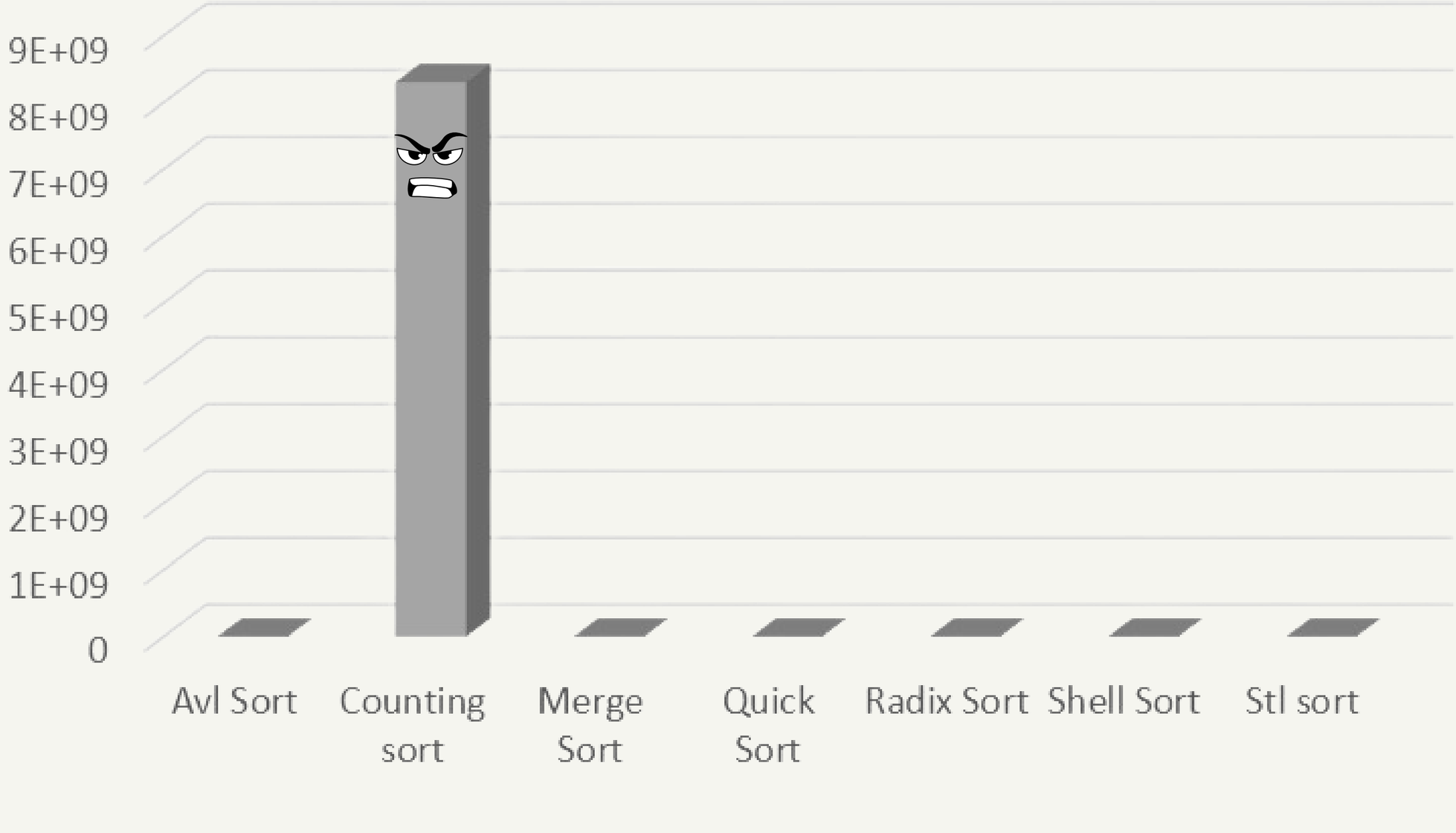
Worst case



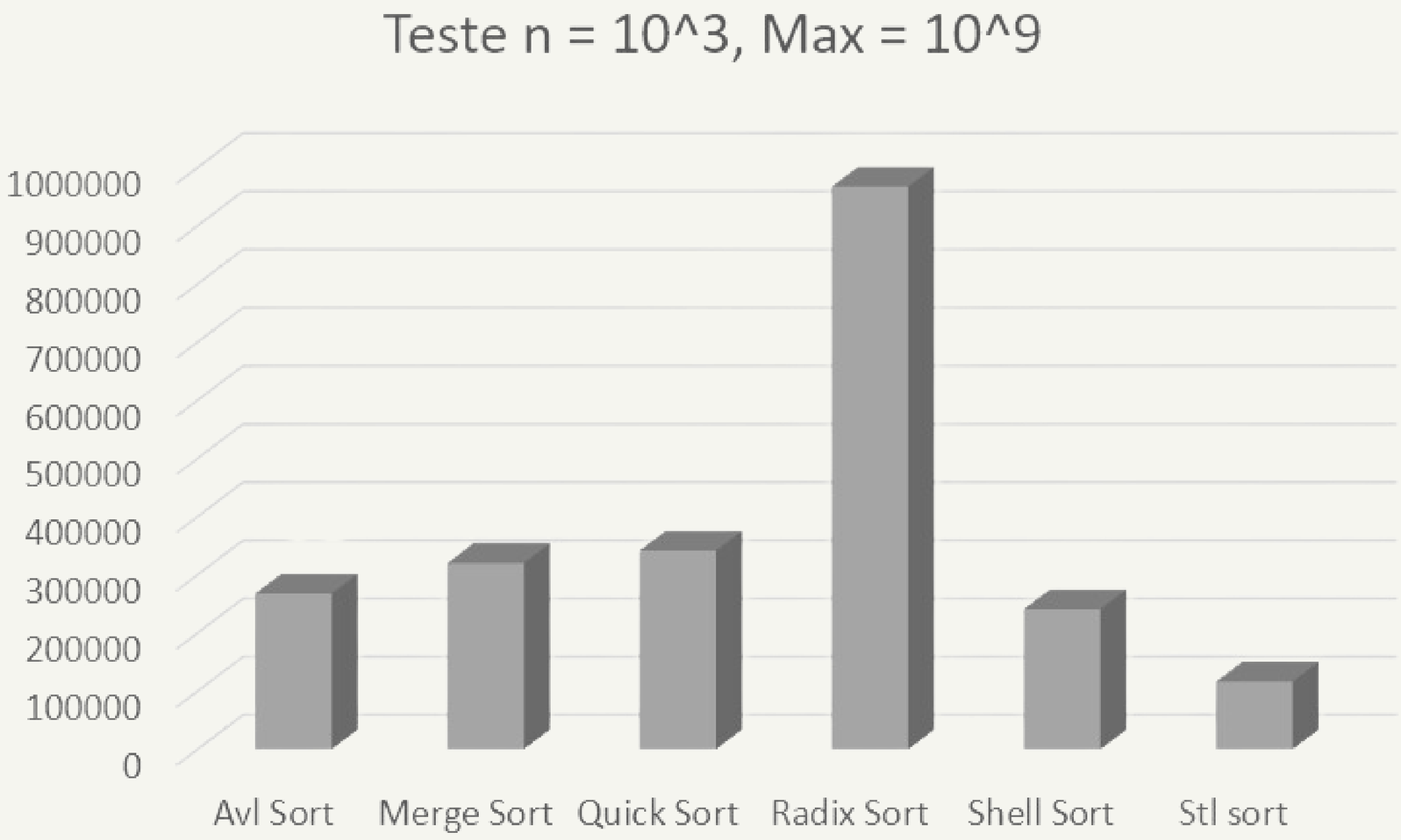
Best Case



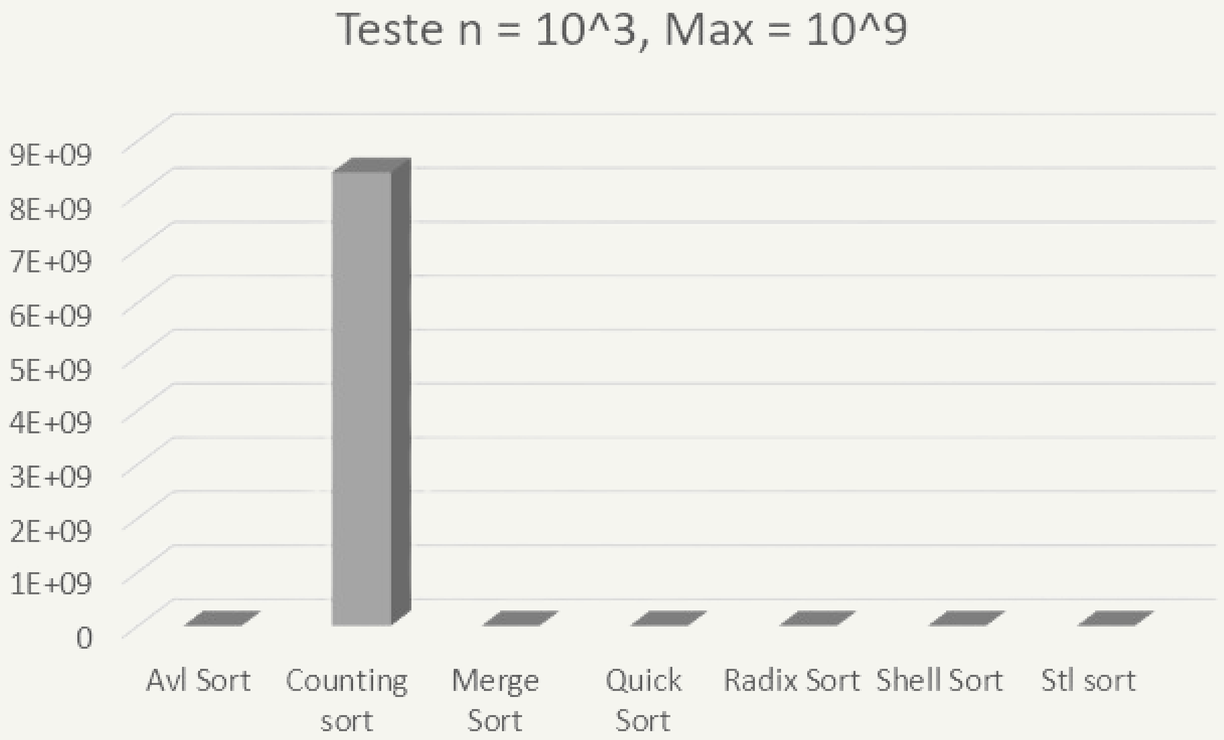
Teste n = 10^3, Max = 10^9



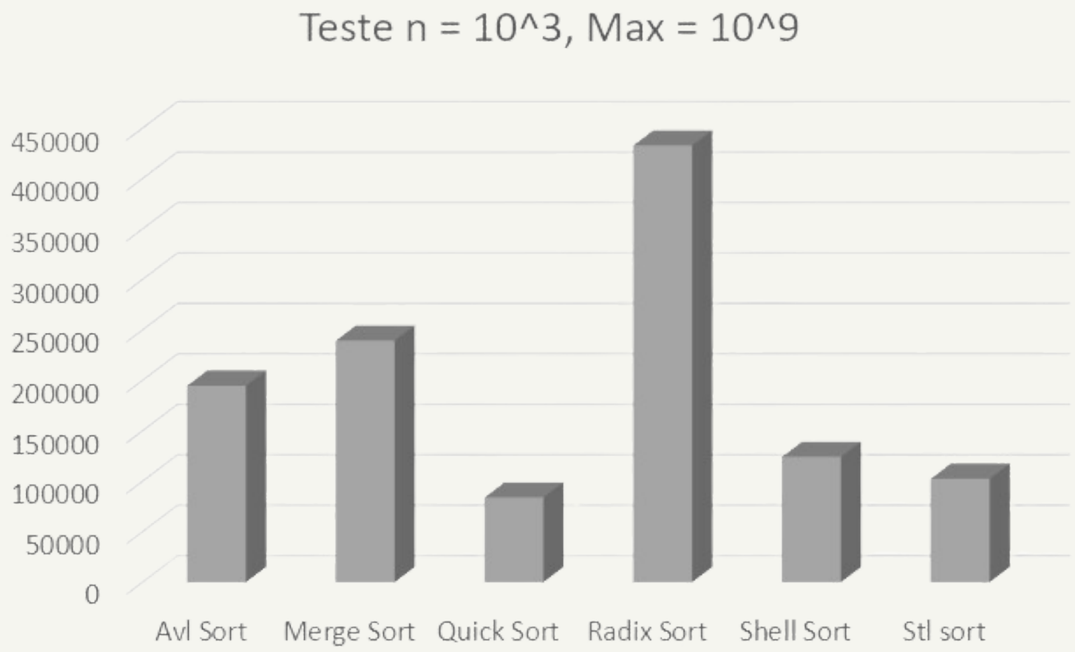
Dar fara counting sort?

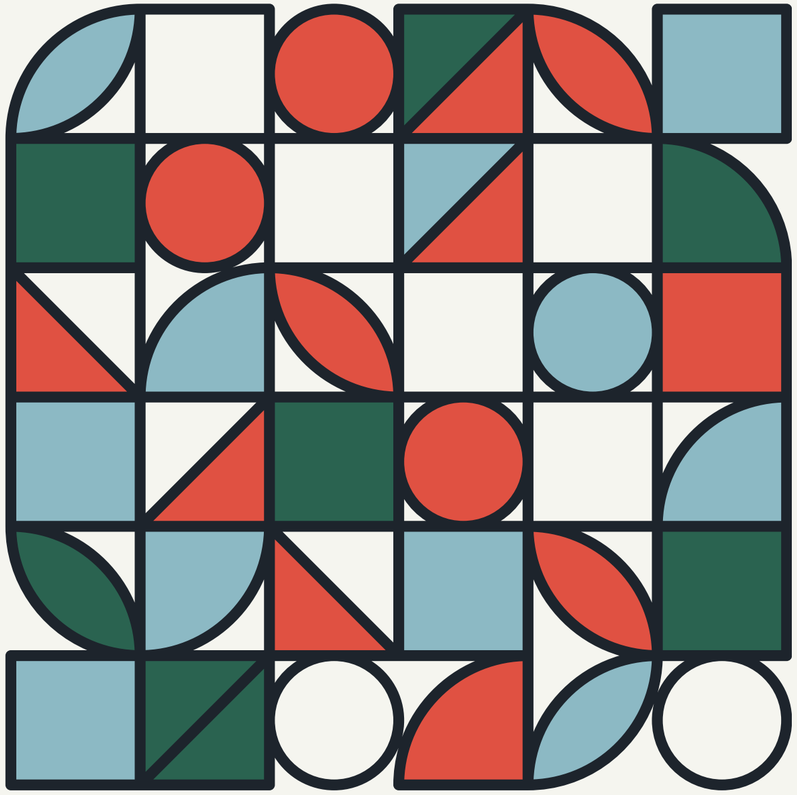


Worst case



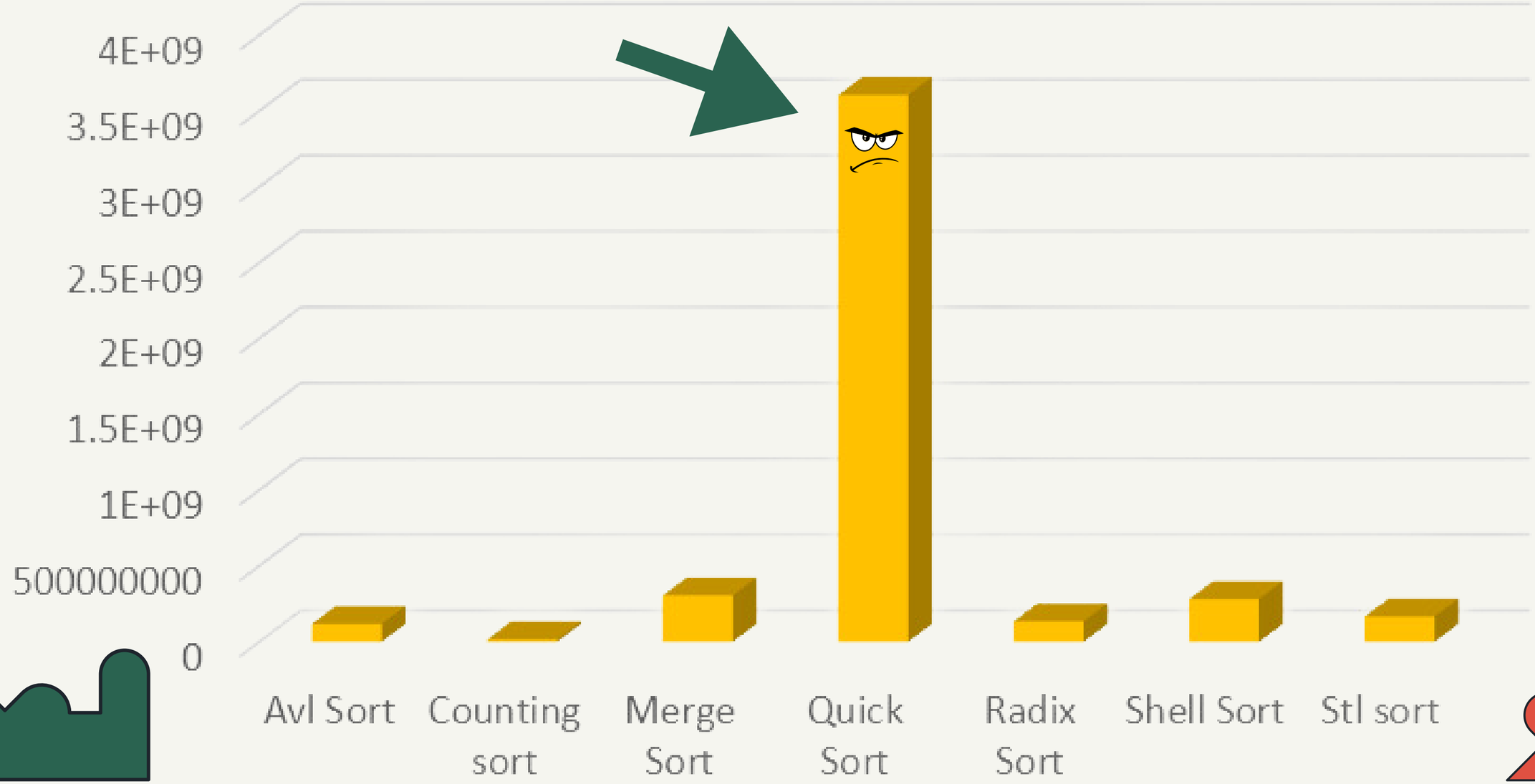
Best Case



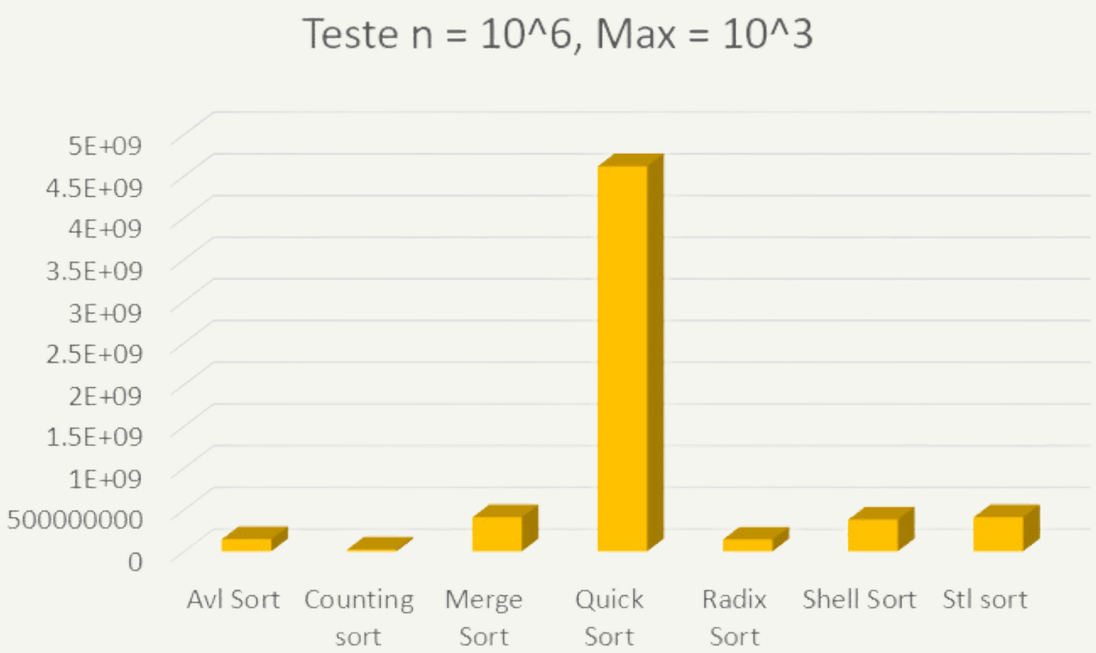


MAI MULTE NUMERE?

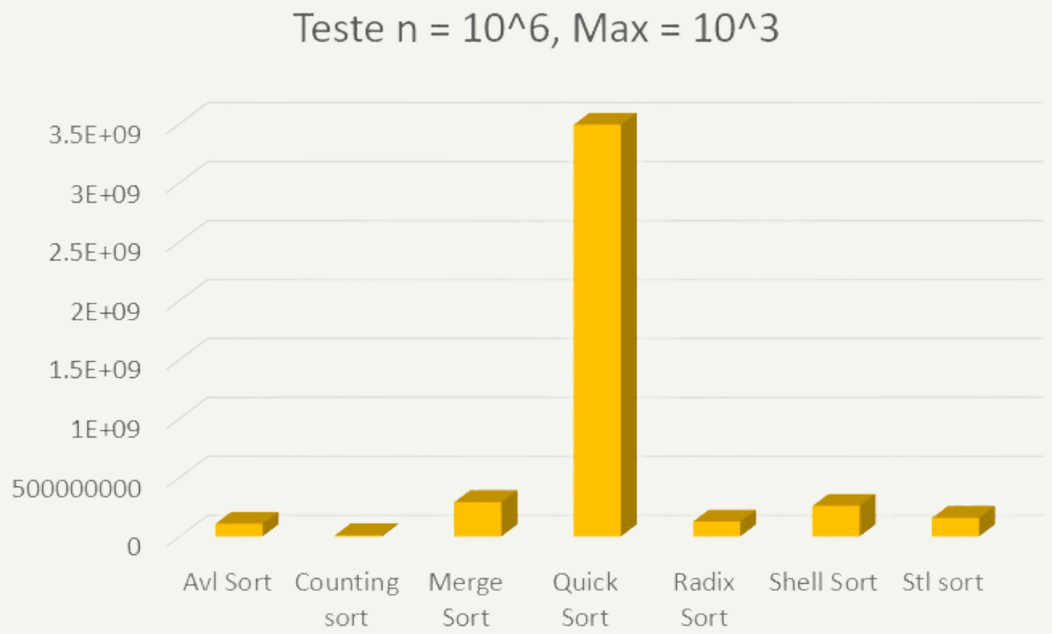
Teste n = 10^6, Max = 10^3



Worst case

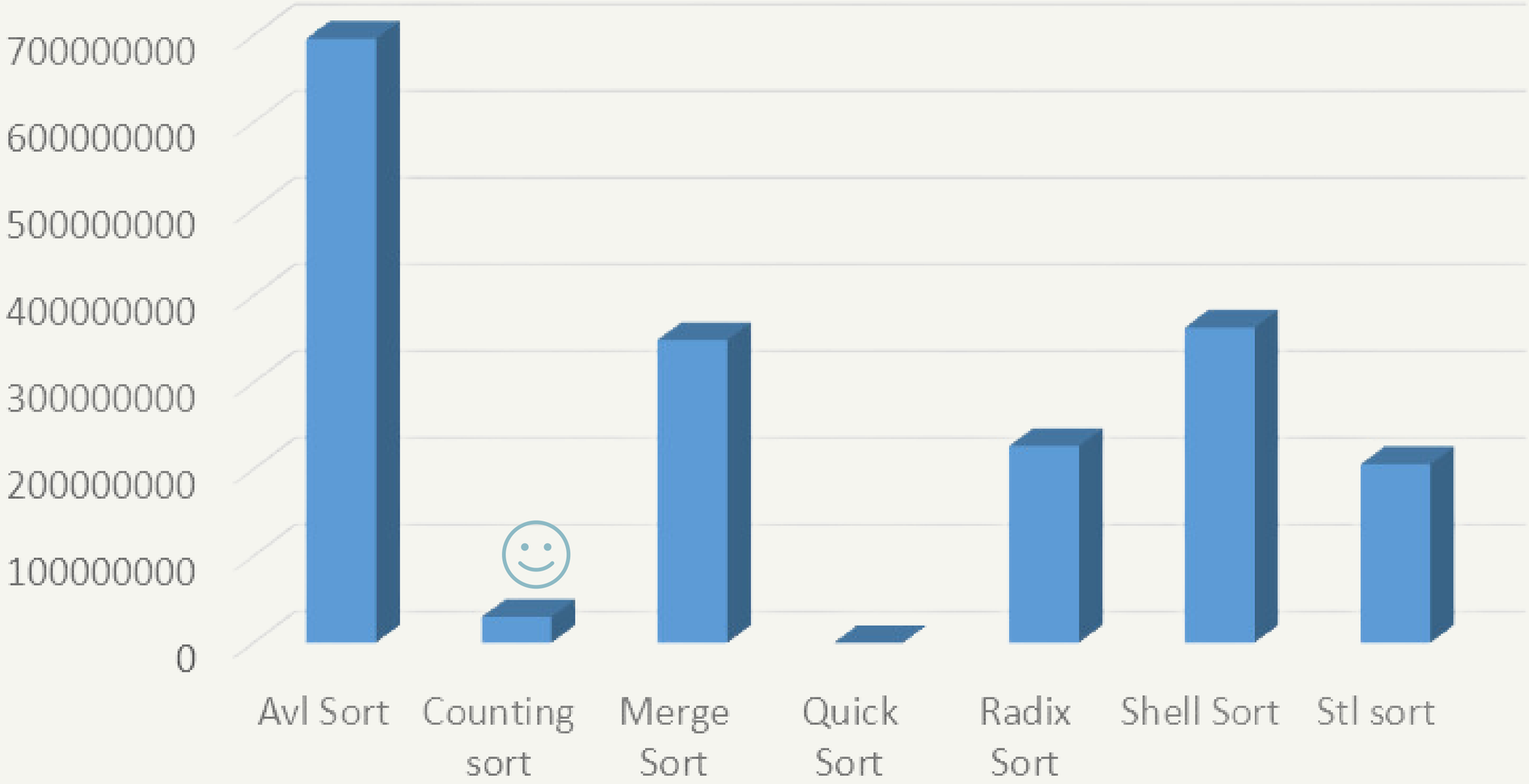


Best Case

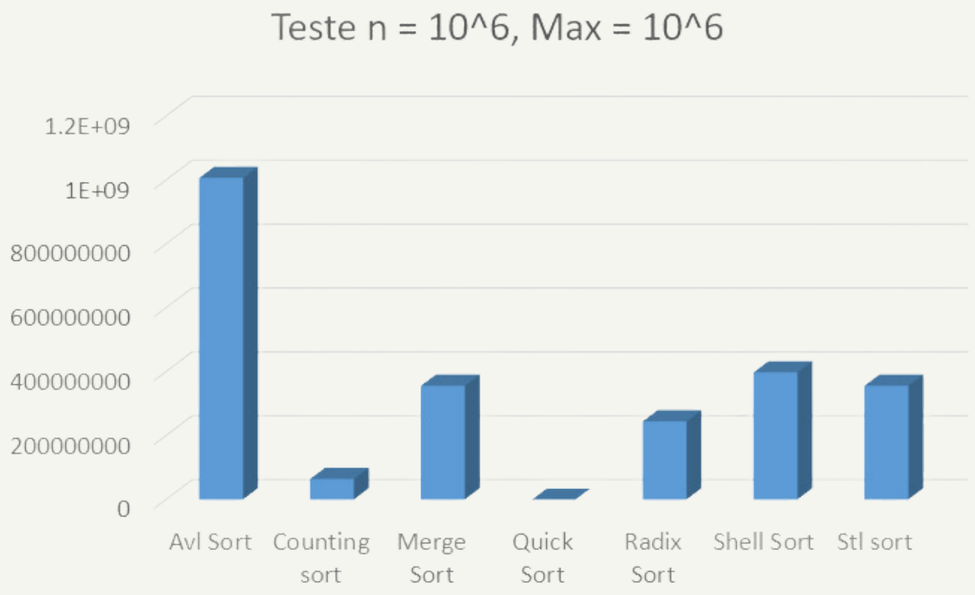


e doar un pivot...

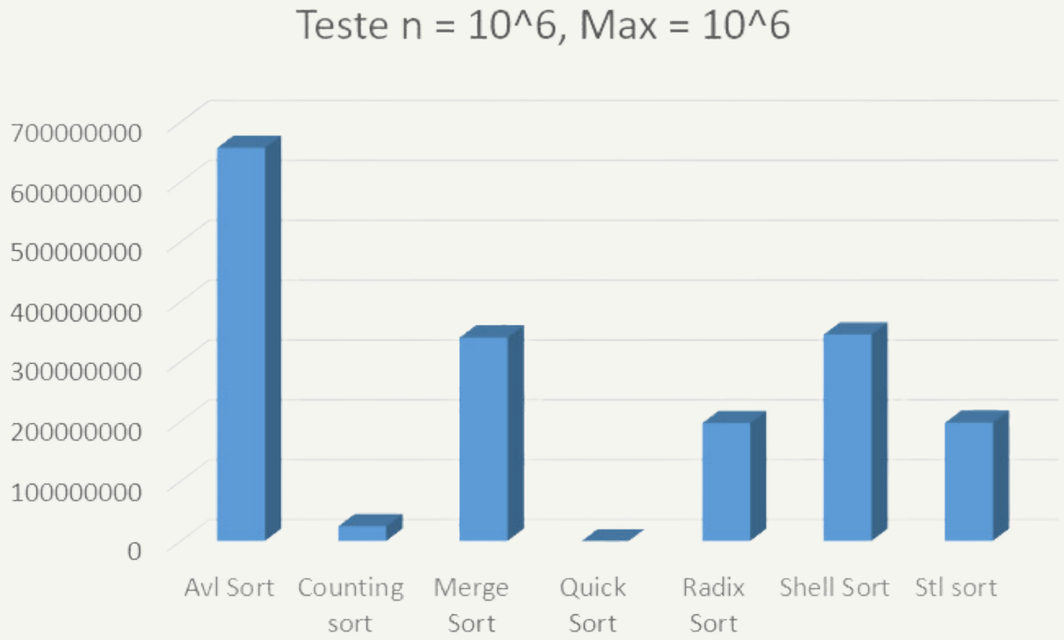
Teste n = 10^6, Max = 10^6

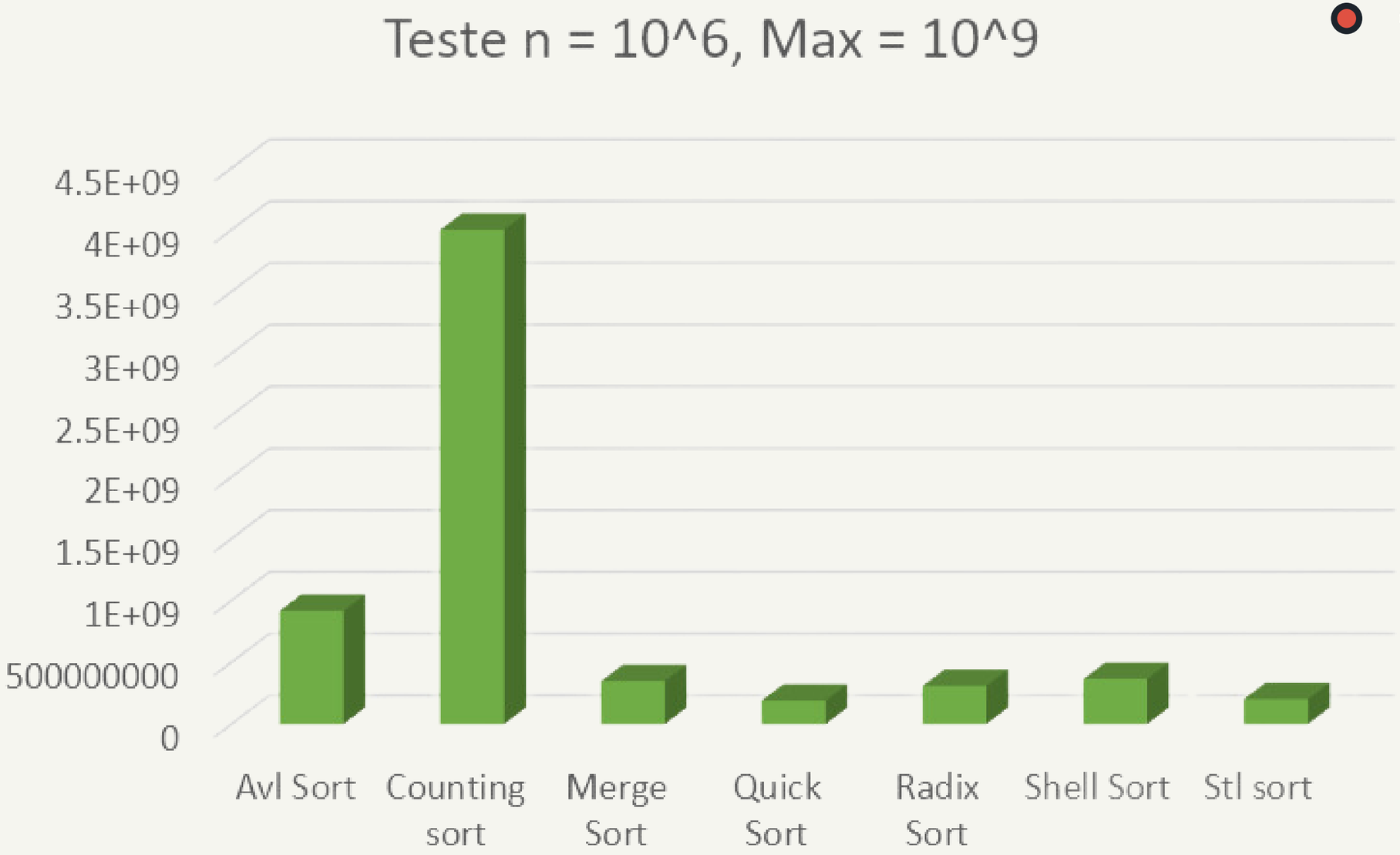


Worst case

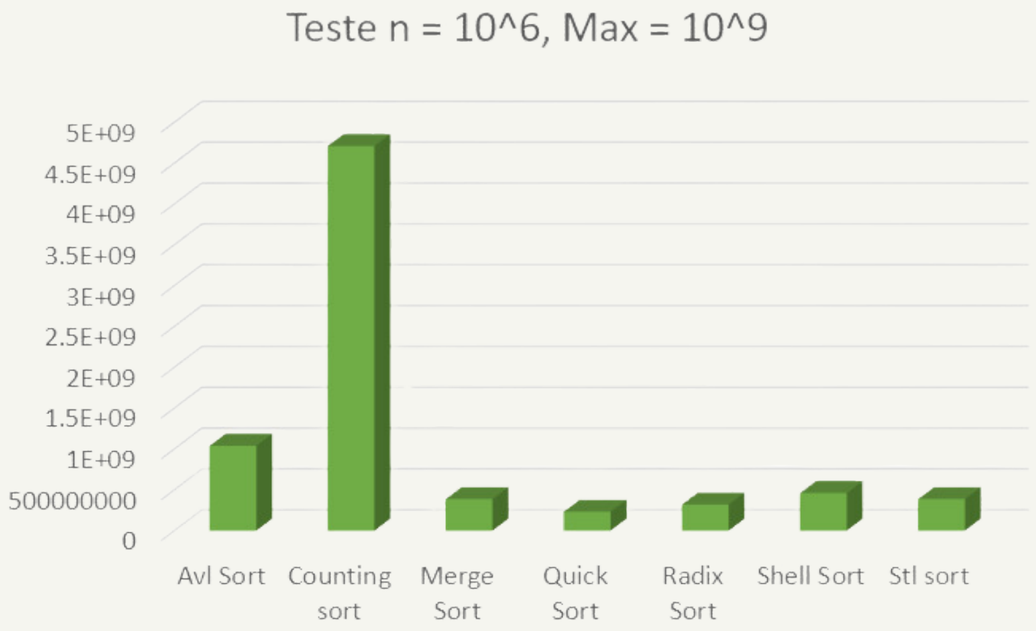


Best Case

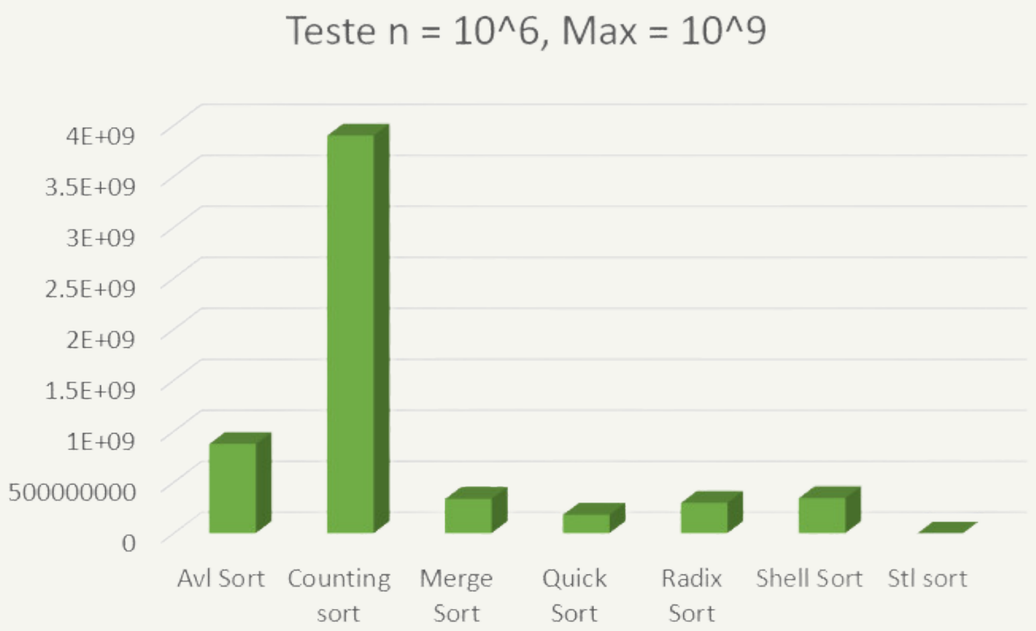



Teste n = 10^6, Max = 10^9
4.5E+09
4E+09
3.5E+09
3E+09
2.5E+09
2E+09
1.5E+09
1E+09
500000000
0
Avl Sort
Counting sort
Merge Sort
Quick Sort
Radix Sort
Shell Sort
Stl sort

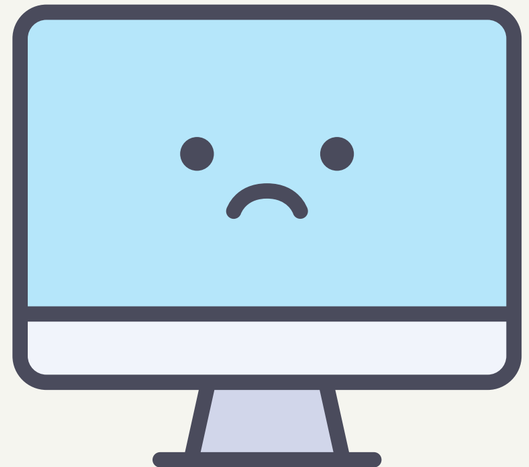
Worst case

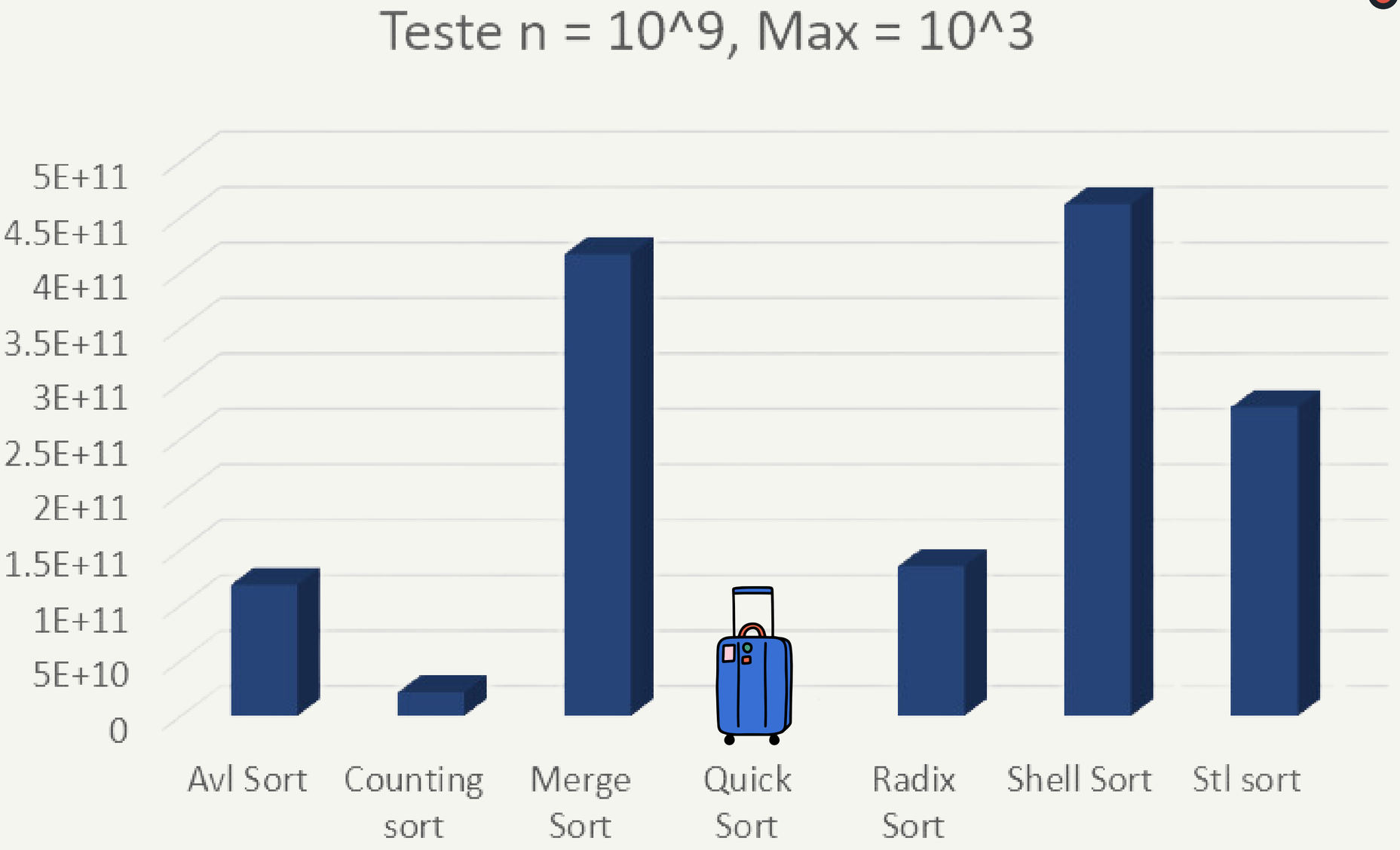


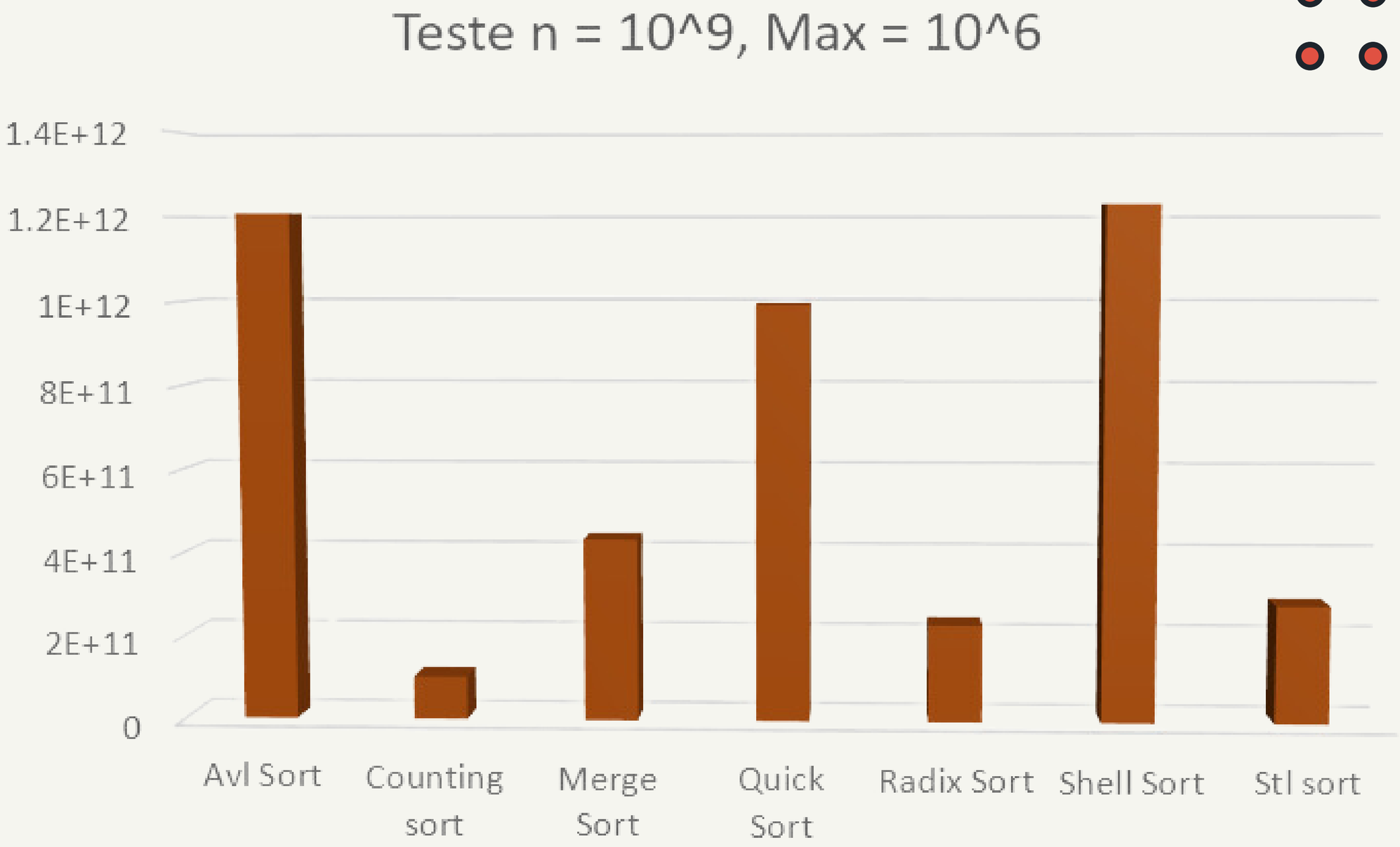
Best Case

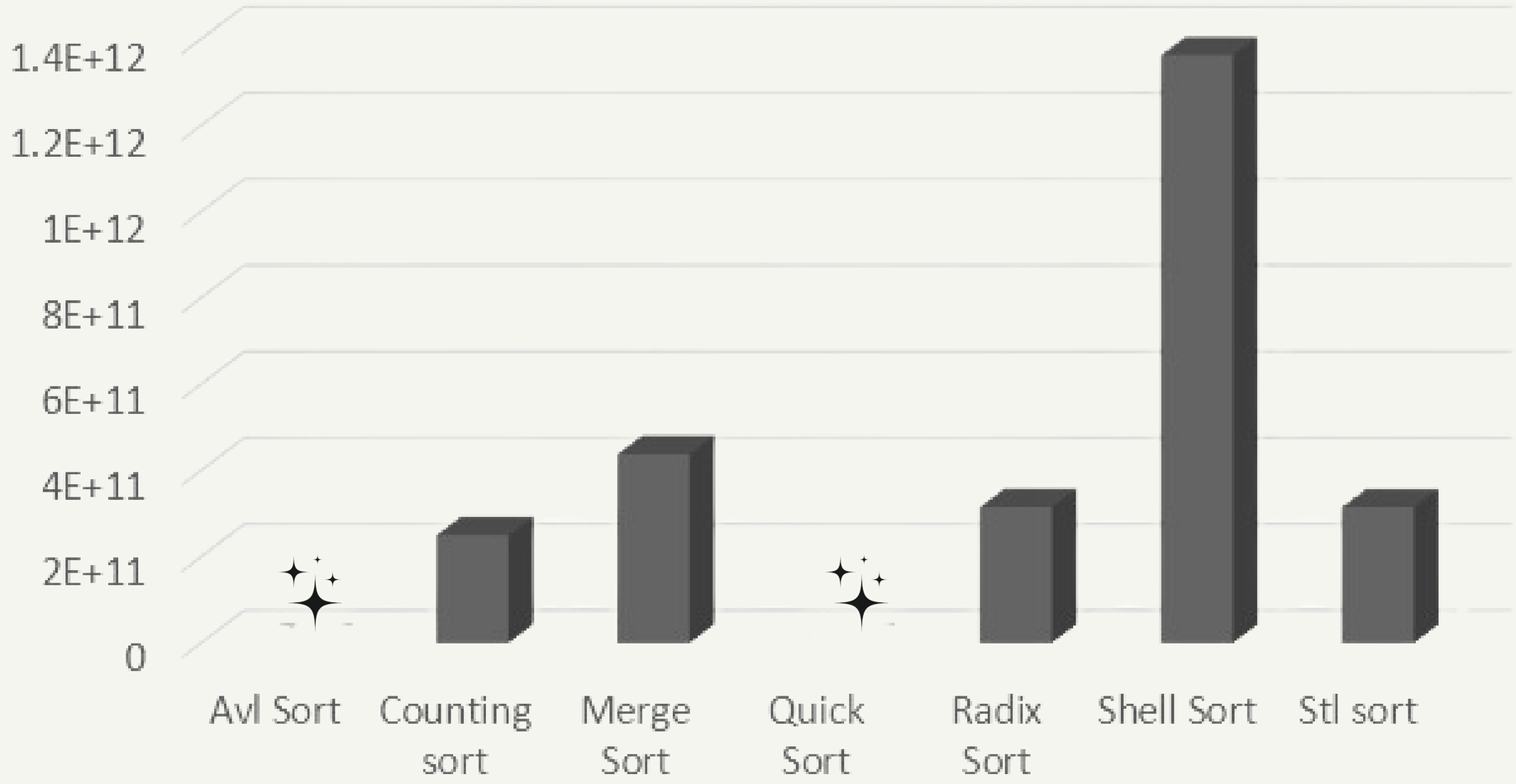


SI MAI MULTE NUMERE..

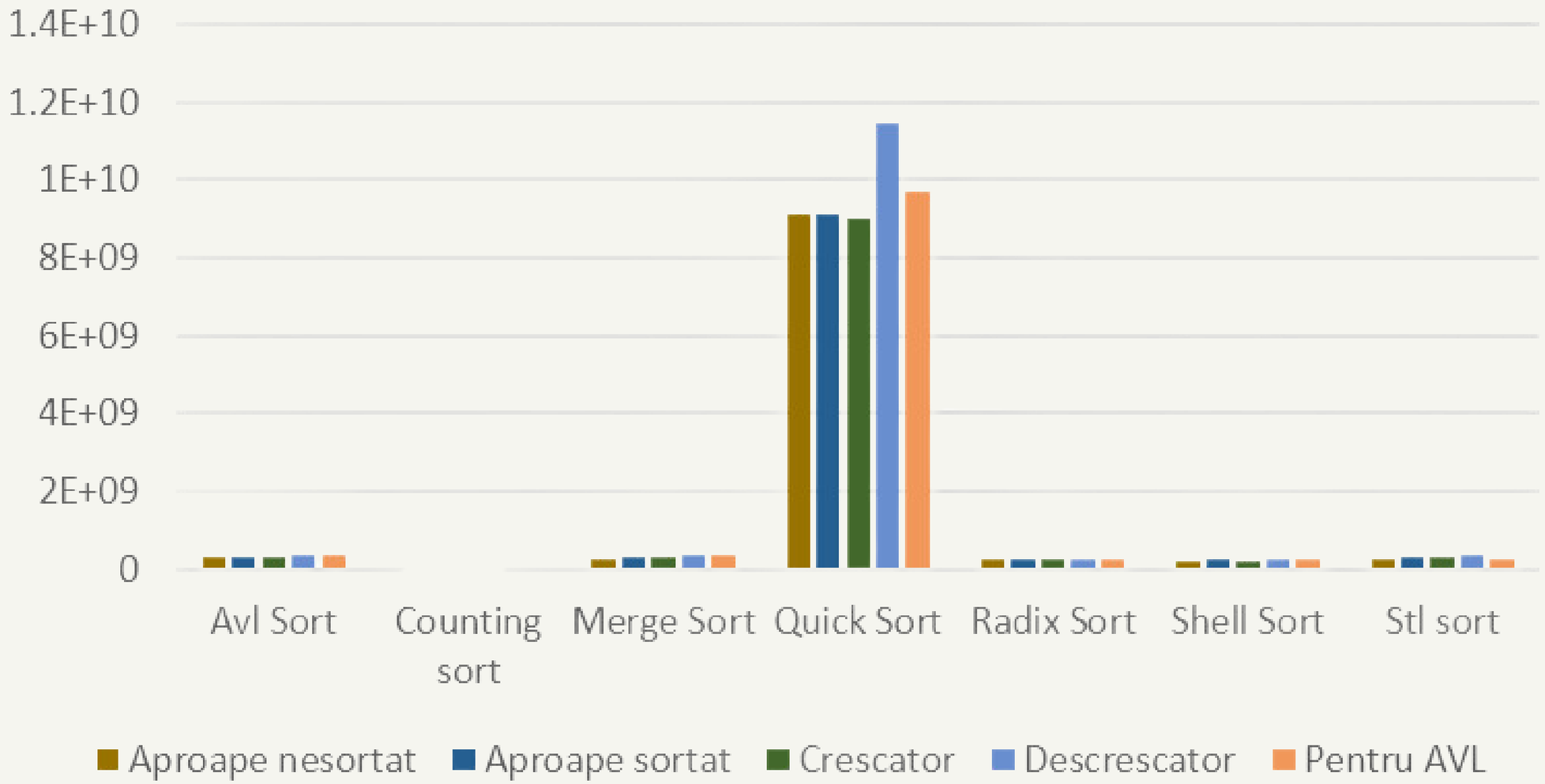



Teste n = 10^9, Max = 10^3
5E+11
4.5E+11
4E+11
3.5E+11
3E+11
2.5E+11
2E+11
1.5E+11
1E+11
5E+10
0
Avl Sort
Counting sort
Merge Sort
Quick Sort
Radix Sort
Shell Sort
Stl sort

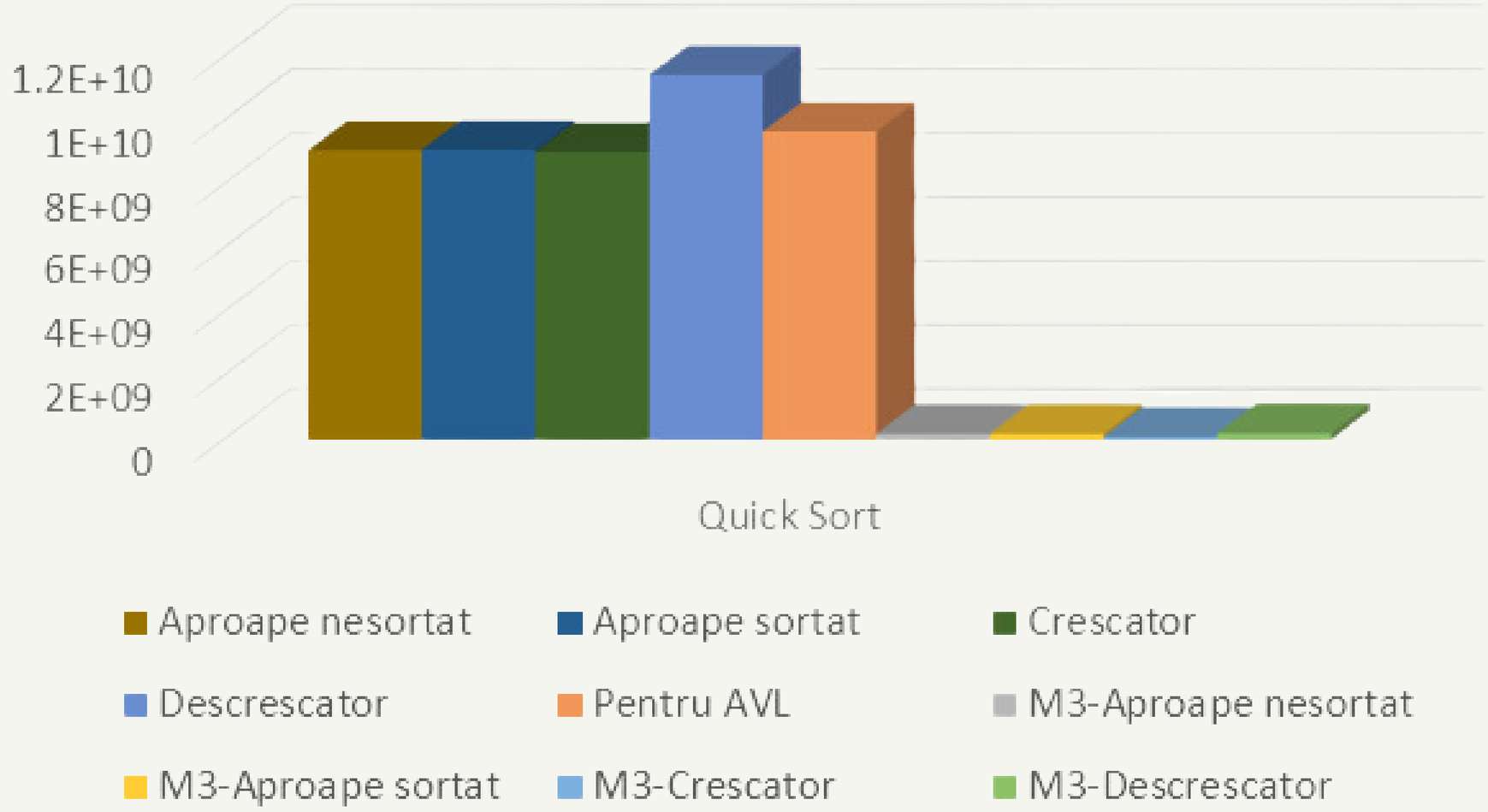

Teste n = 10^9, Max = 10^6
1.4E+12
1.2E+12
1E+12
8E+11
6E+11
4E+11
2E+11
0
Avl Sort
Counting sort
Merge Sort
Quick Sort
Radix Sort
Shell Sort
Stl sort


Teste n = 10^9, Max = 10^9
1.4E+12
1.2E+12
1E+12
8E+11
6E+11
4E+11
2E+11
0
Avl Sort
Counting sort
Merge Sort
Quick Sort
Radix Sort
Shell Sort
Stl sort

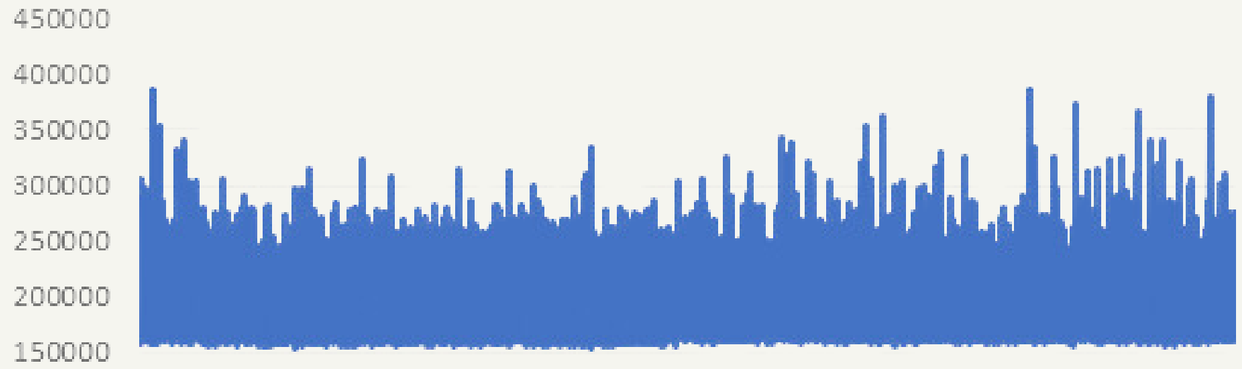
CAZURI SPECIALE

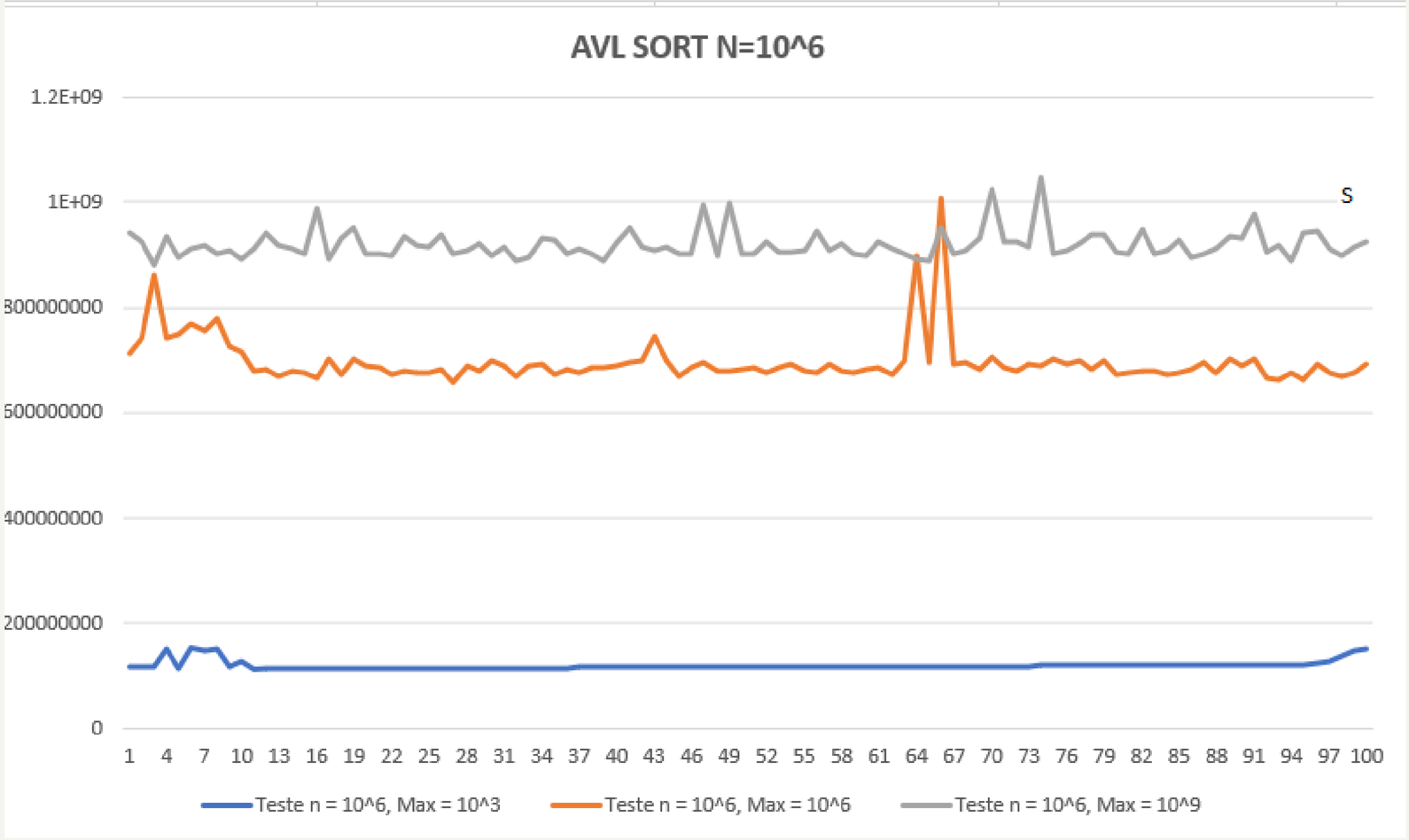


QUICK SORT PIVOT CAPĂT VS M3

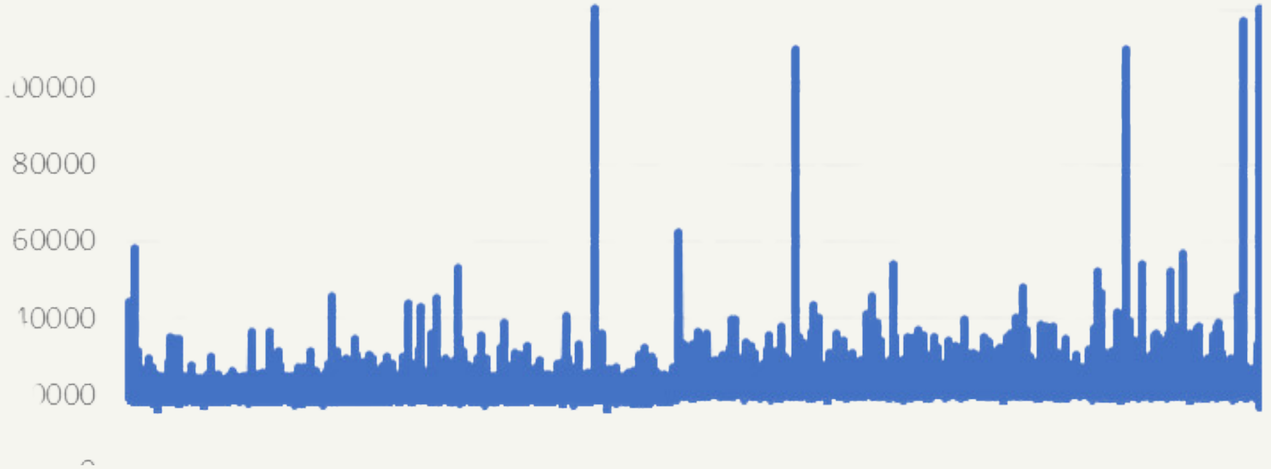


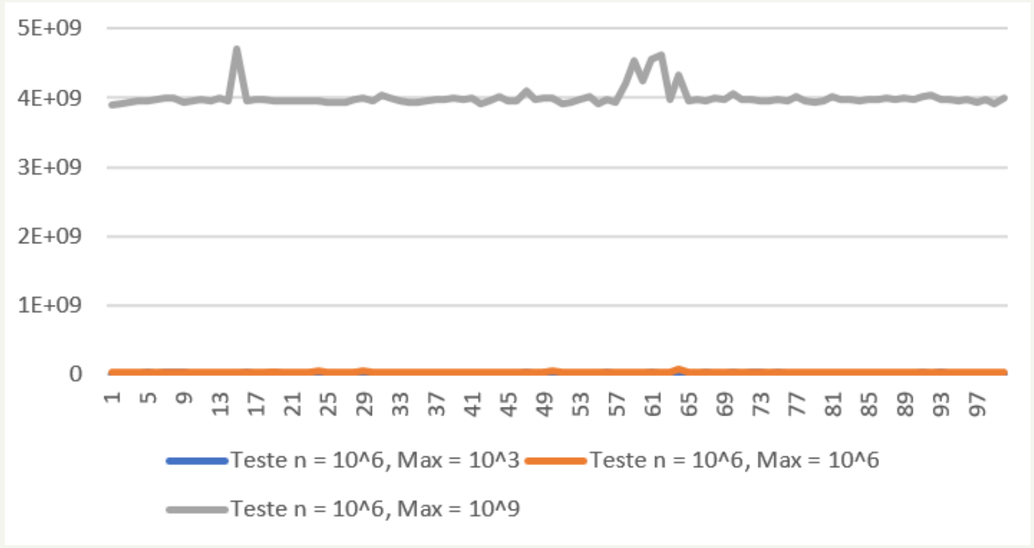
AVL SORT

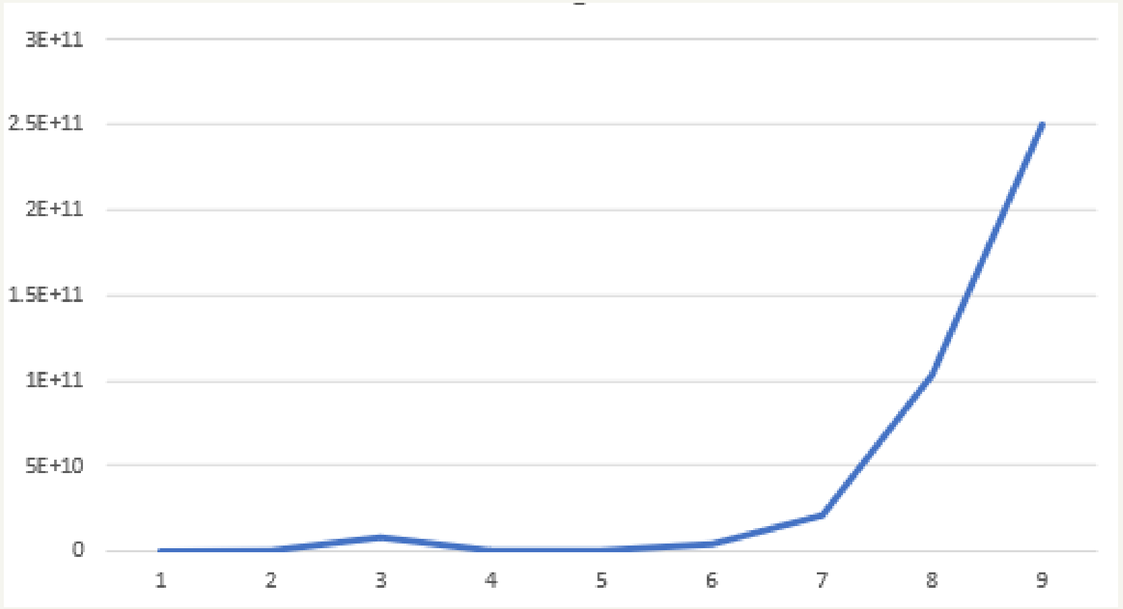

450000
400000
350000
300000
250000
200000
150000


AVL SORT N=10^6
1.2E+09
1E+09
800000000
600000000
400000000
200000000
0
1 4 7 10 13 16 19 22 25 28 31 34 37 40 43 46 49 52 55 58 61 64 67 70 73 76 79 82 85 88 91 94 97 100
Teste n = 10^6, Max = 10^3
Teste n = 10^6, Max = 10^6
Teste n = 10^6, Max = 10^9

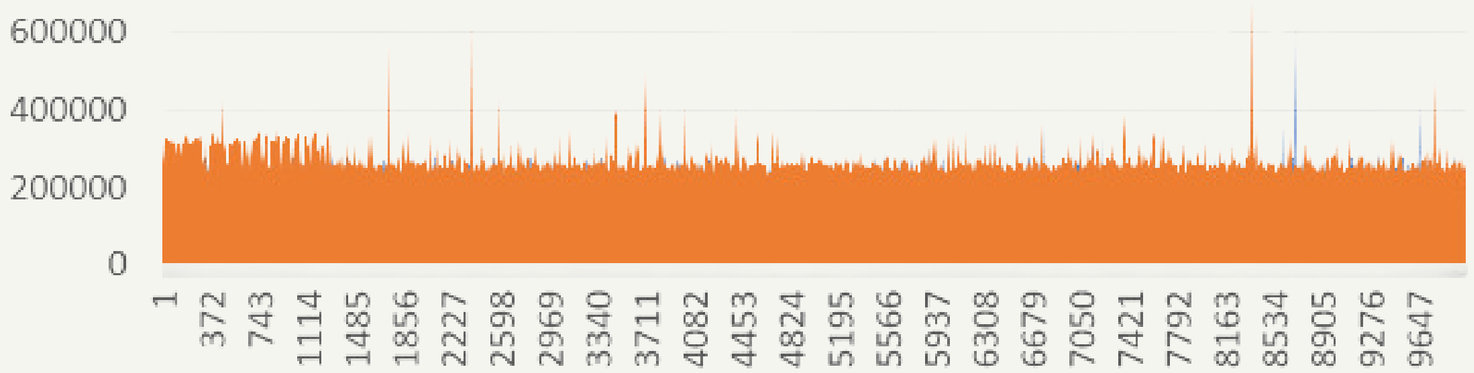
COUNTING SORT

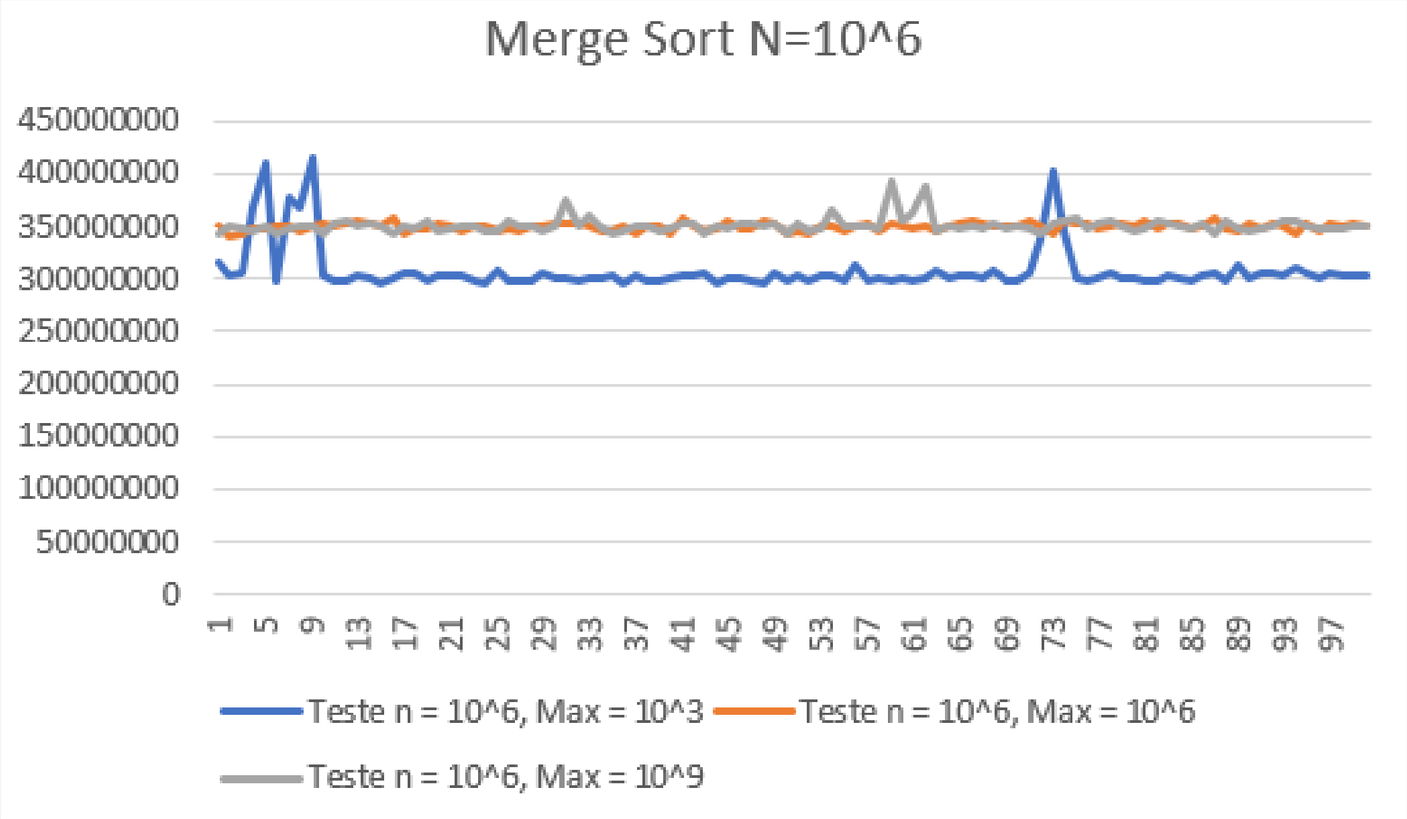




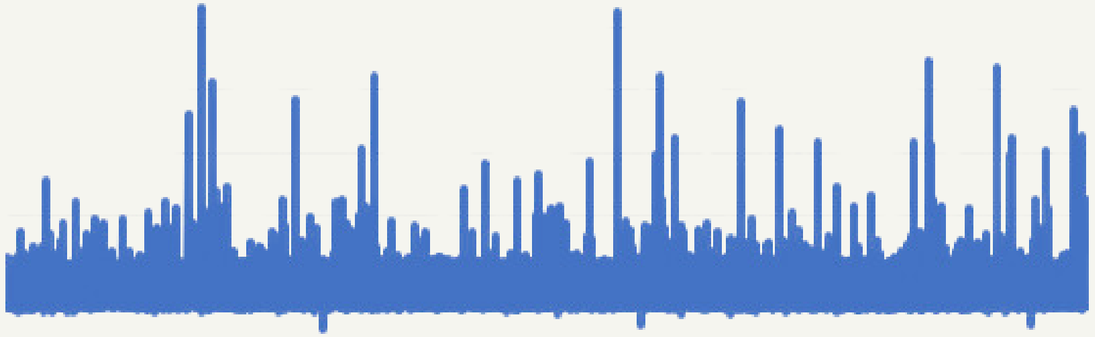


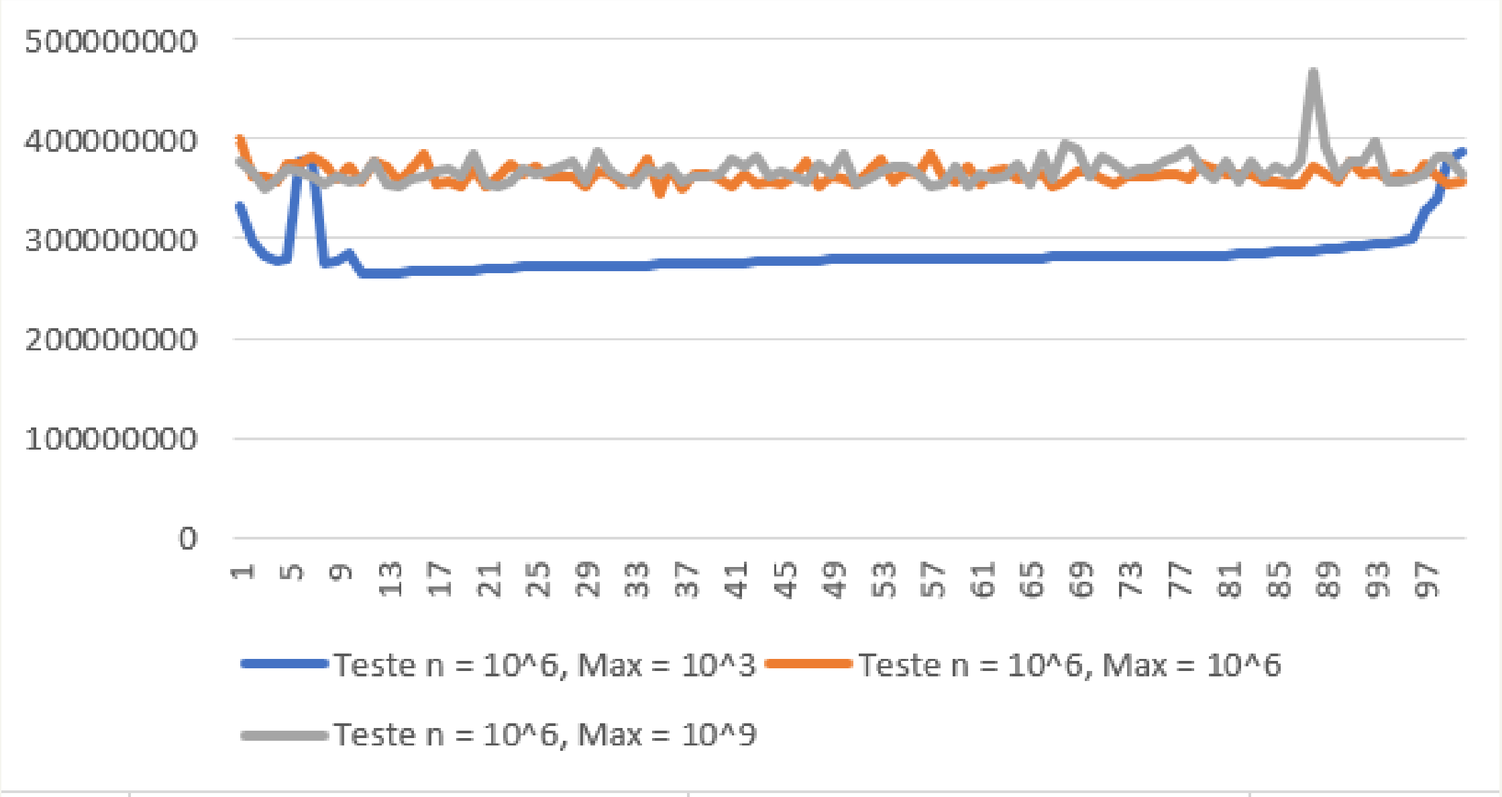
MERGE SORT


600000
400000
200000
0
1
372
743
1114
1485
1856
2227
2598
2969
3340
3711
4082
4453
4824
5195
5566
5937
6308
6679
7050
7421
7792
8163
8534
8905
9276
9647

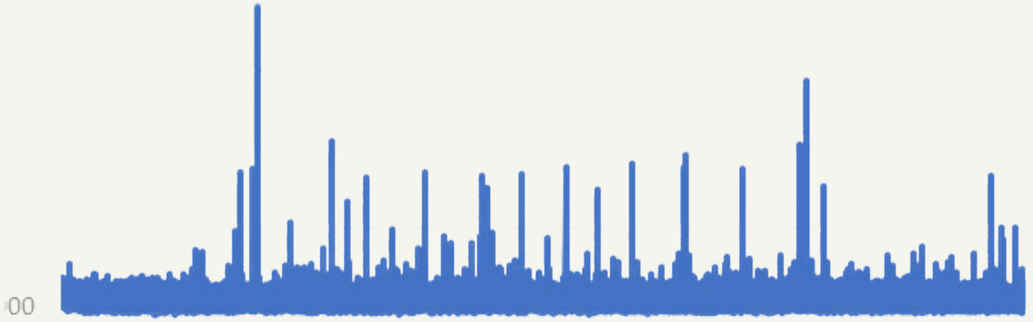

Merge Sort N=10^6
450000000
400000000
350000000
300000000
250000000
200000000
150000000
100000000
50000000
0
1
5
9
13
17
21
25
29
33
37
41
45
49
53
57
61
65
69
73
77
81
85
89
93
97
Teste n = 10^6, Max = 10^3
Teste n = 10^6, Max = 10^6
Teste n = 10^6, Max = 10^9

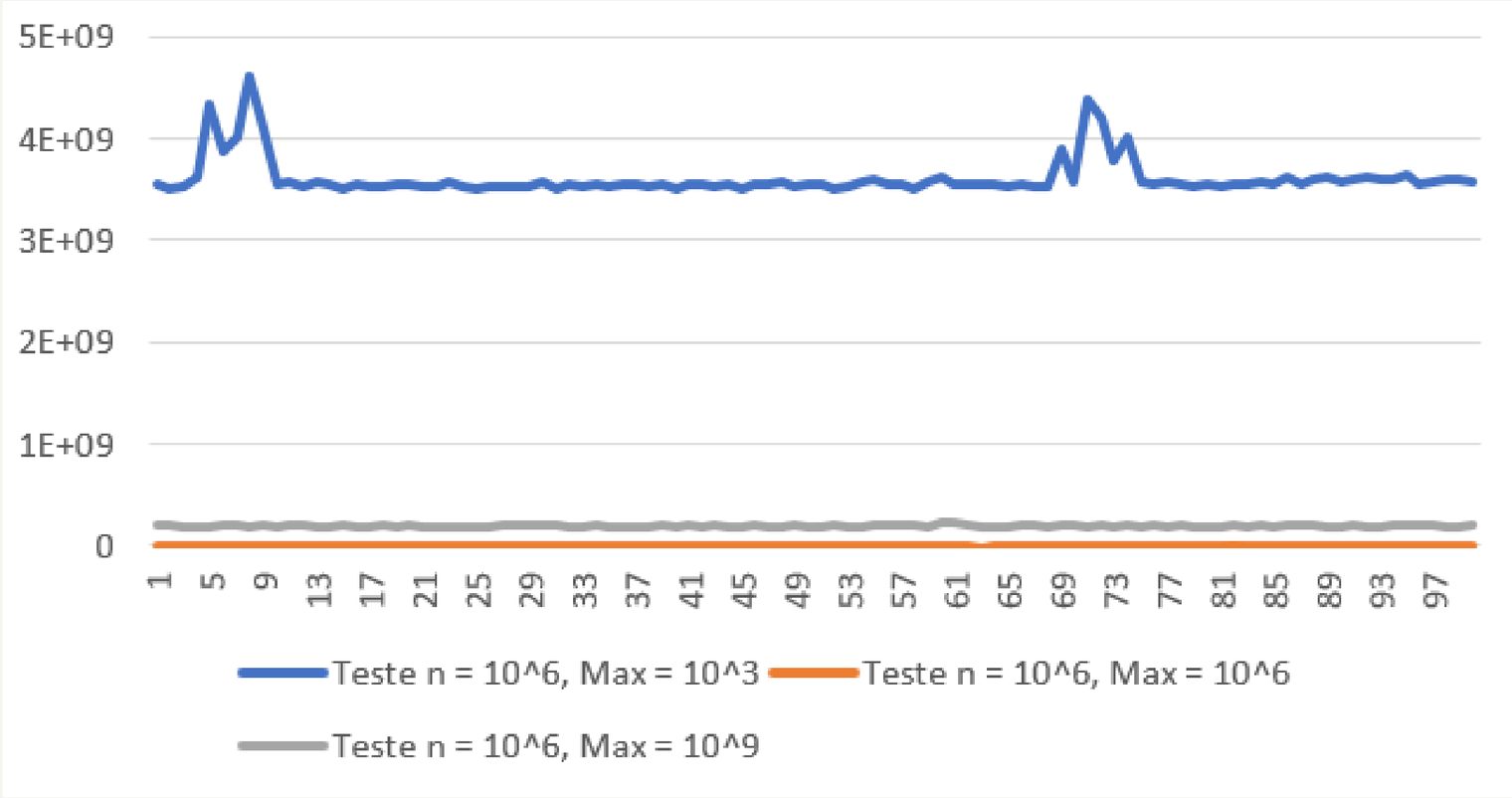
SHELL SORT




500000000
400000000
300000000
200000000
100000000
0
1
5
9
13
17
21
25
29
33
37
41
45
49
53
57
61
65
69
73
77
81
85
89
93
97
Teste n = 10^6, Max = 10^3
Teste n = 10^6, Max = 10^6
Teste n = 10^6, Max = 10^9

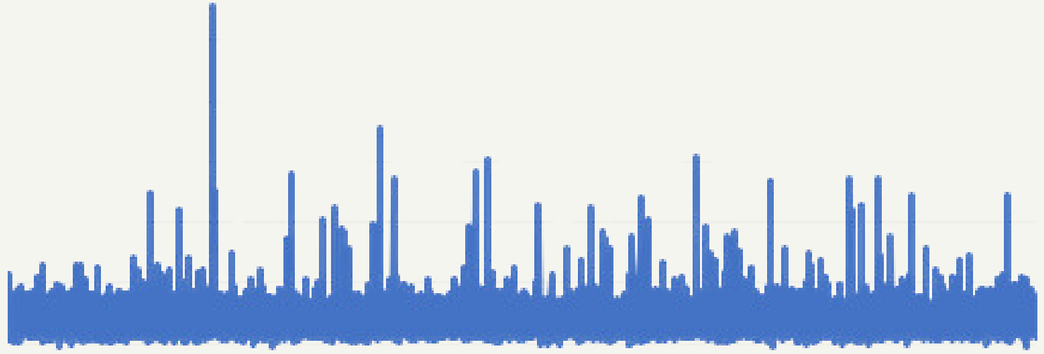
QUICK SORT

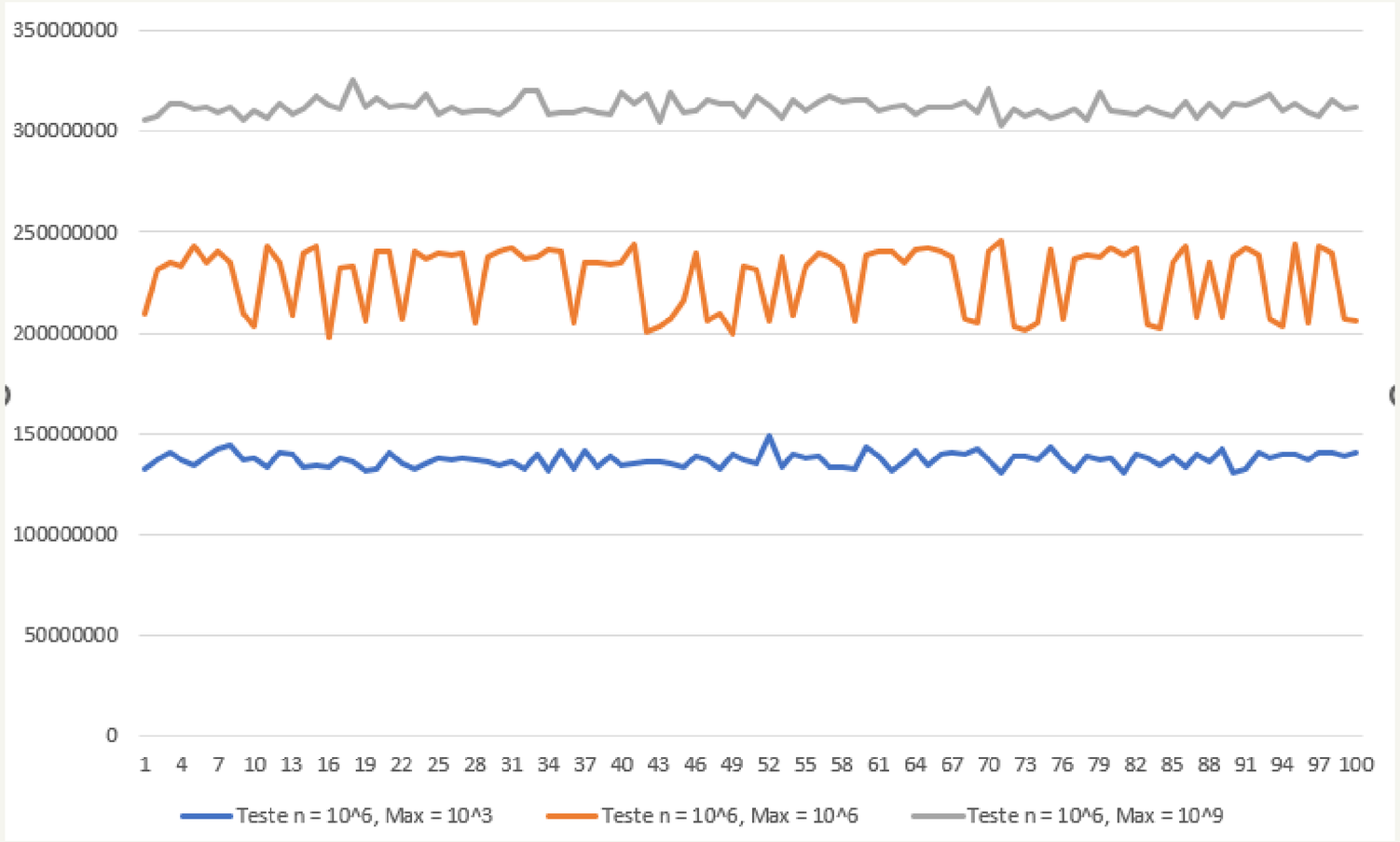

00


5E+09
4E+09
3E+09
2E+09
1E+09
0
1
5
9
13
17
21
25
29
33
37
41
45
49
53
57
61
65
69
73
77
81
85
89
93
97
Teste n = 10^6, Max = 10^3
Teste n = 10^6, Max = 10^6
Teste n = 10^6, Max = 10^9

RADIX SORT

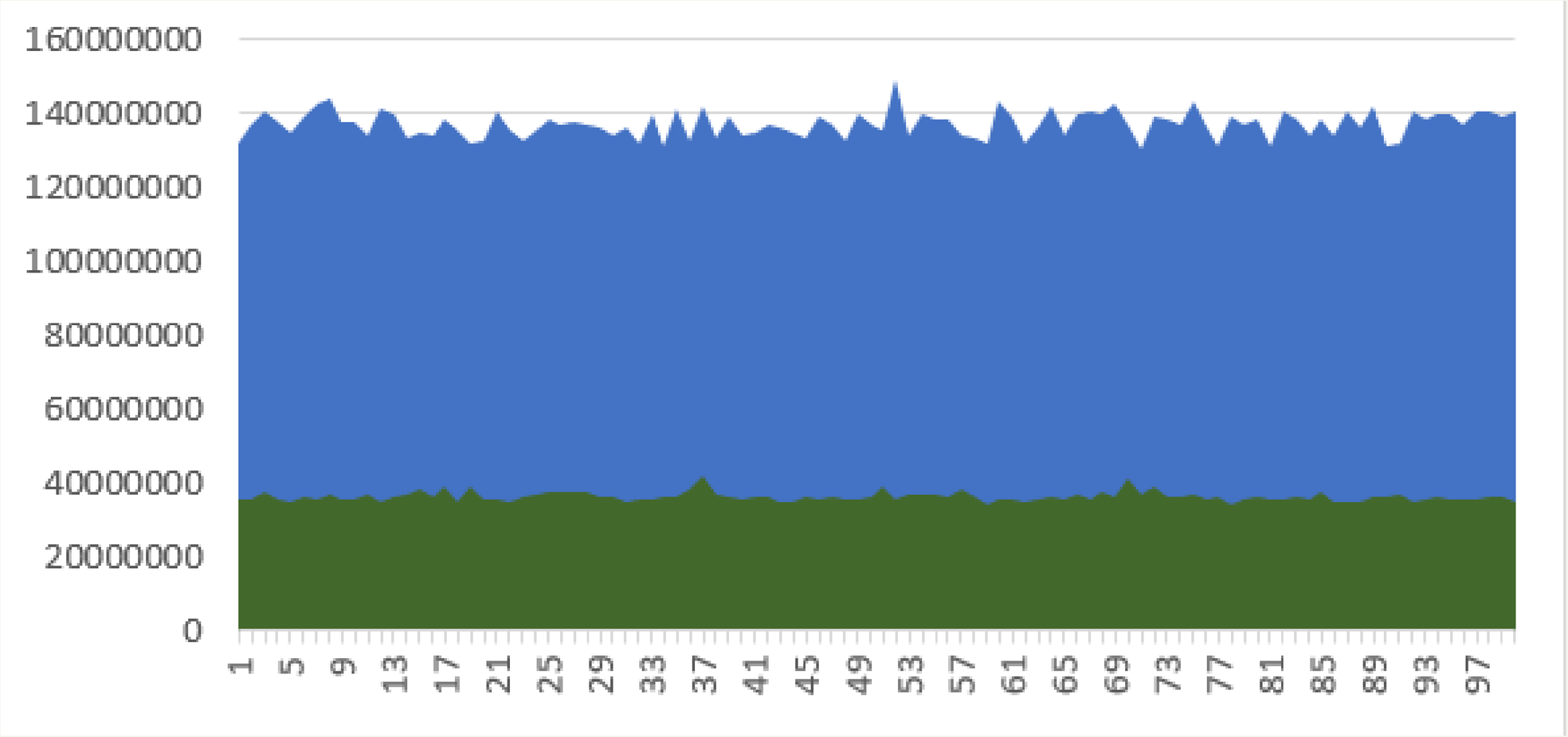
RADIX SORT




350000000
300000000
250000000
200000000
150000000
100000000
50000000
0
1 4 7 10 13 16 19 22 25 28 31 34 37 40 43 46 49 52 55 58 61 64 67 70 73 76 79 82 85 88 91 94 97 100
Teste n = 10^6, Max = 10^3
Teste n = 10^6, Max = 10^6
Teste n = 10^6, Max = 10^9

Radix sort

n=10^6 max=10^3

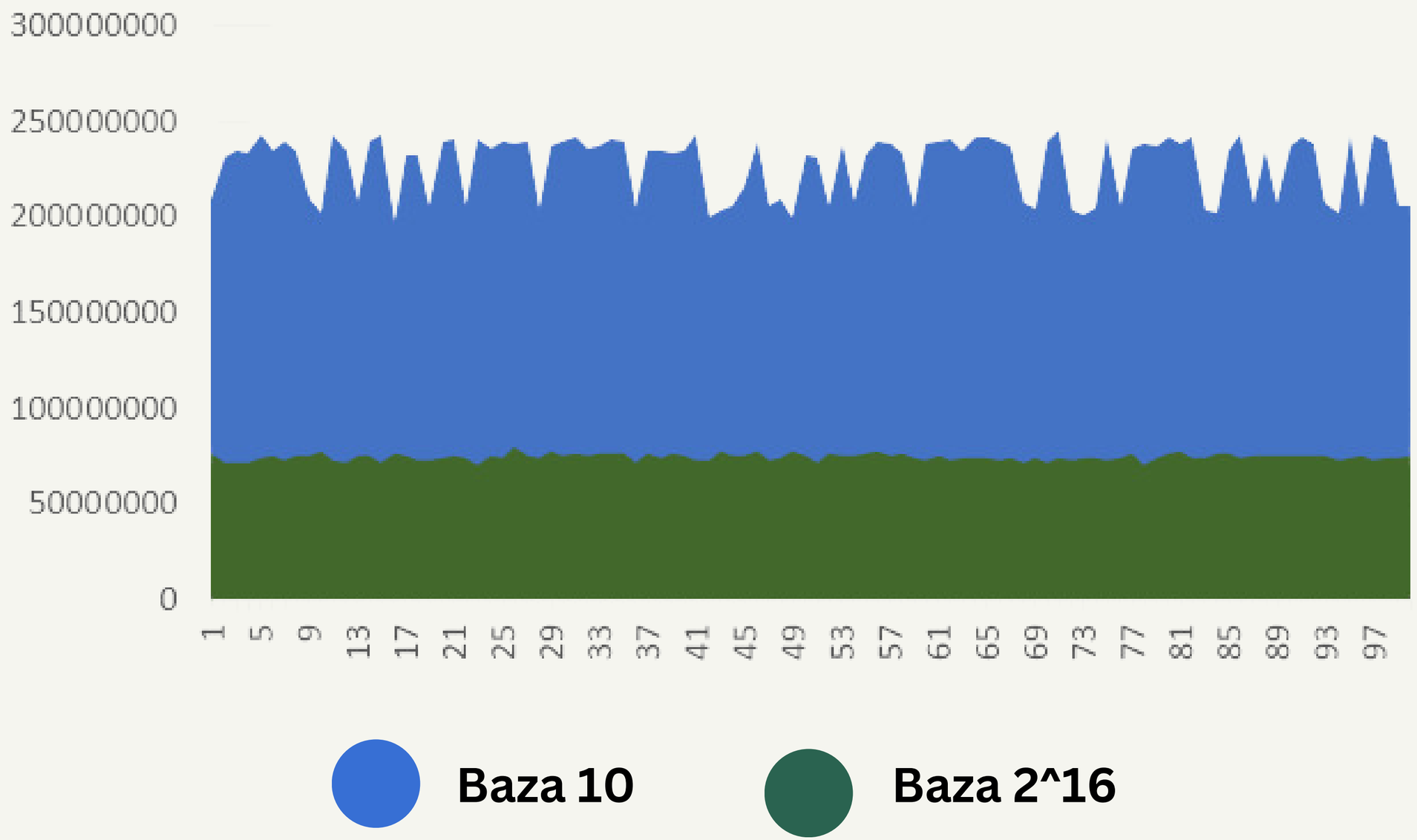


Baza 10

Baza 2^16

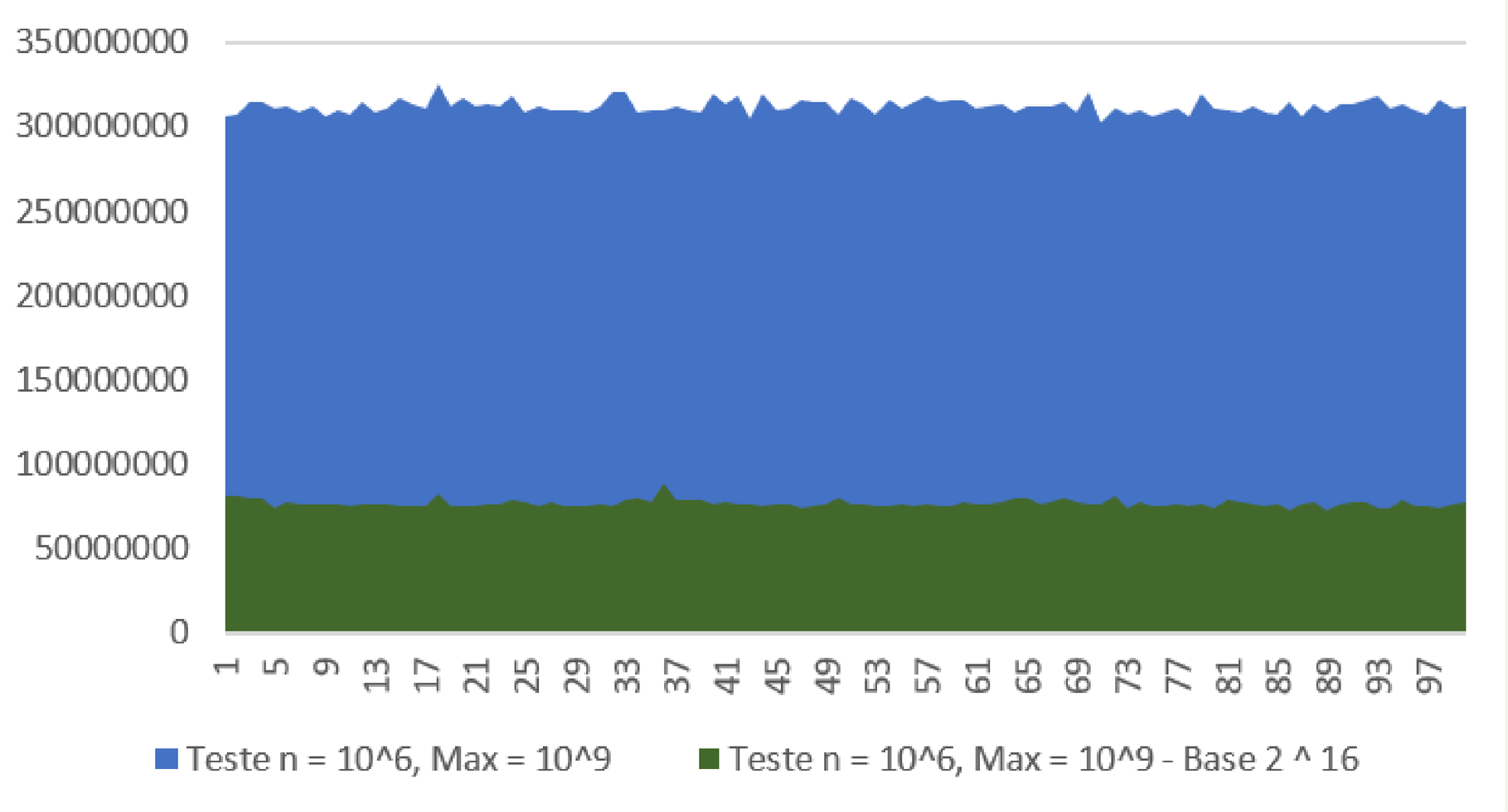
Radix sort

n=10^6 max=10^6



Radix sort

n=10^6 max=10^9



Baza 10

Baza 2^16