Activity 1. [Measuring execution times]

Maximum value of the miliseconds is 2^64-1 ms = 1s/1000ms \* 1min/60s \* 1 hour/60 min \* 1 day / 24 h \* 1 year / 365.25 days = 599309424.097 – 55.15 years that have passed, there are still 599309368.947 years remaining.

If n>=1300000 we start getting

Activity 2. [TITLE OF THE ACTIVITY]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| n | TSum(ms) | Tmax(ms) | Tmatches1(ms) | Tmatches2(ms) |
| 10000 | 0.039 | 0.06 | 514 | 0.0061 |
| 20000 | 0.076 | 0.121 | 2017 | 0.122 |
| 40000 | 0.151 | 0.233 | 8049 | 0.236 |
| 80000 | 0.302 | 0.461 | 32516 | 0.473 |
| 160000 | 0.604 | 0.925 | 129191 | 0.954 |
| 320000 | 1.220 | 1843 | OoT | 1.886 |
| 640000 | 2.456 | 3.675 | OoT | 3.761 |
| 1280000 | 4.867 | 7.348 | OoT | 7.392 |
| 2560000 | 9.97 | 14.773 | OoT | 14.741 |
| 5120000 | 19.99 | 29.741 | OoT | 29.529 |
| 10240000 | 40.64 | 61.201 | OoT | 59.194 |
| 20480000 | 80.25 | 116.661 | OoT | OoT |
| 40960000 | 158.15 | 233.352 | OoT | OoT |
| 81920000 | 316.72 | 456.4 | OoT | OoT |