

## Búsqueda Lineal Sin Hilos

| Número a buscar | Tamaño de n | Tiempo real  | Encontrado |
|-----------------|-------------|--------------|------------|
| 322486          | 100         | 7.1883201599 | No         |
| 14700764        | 100         | 6.8306922913 | No         |
| 3128036         | 100         | 5.8197975159 | No         |
| 6337399         | 100         | 8.5496902466 | No         |
| 61396           | 100         | 8.0204010010 | No         |
| 10393545        | 100         | 6.1488151550 | No         |
| 2147445644      | 100         | 6.0606002808 | No         |
| 1295390003      | 100         | 6.5898895264 | No         |
| 450057883       | 100         | 7.9393386841 | No         |
| 187645041       | 100         | 6.4897537231 | No         |
| 1980098116      | 100         | 6.9904327393 | No         |
| 152503          | 100         | 6.6900253296 | No         |
| 5000            | 100         | 6.5588951111 | No         |
| 1493283650      | 100         | 6.7806243896 | No         |
| 214826          | 100         | 6.5994262695 | No         |
| 1843349527      | 100         | 6.0796737671 | No         |
| 1360839354      | 100         | 6.3800811768 | No         |
| 2109248666      | 100         | 6.4396858215 | No         |
| 2147470852      | 100         | 6.6113471985 | No         |
| 0               | 100         | 6.6399574280 | No         |
| 322486          | 1000        | 7.1787834167 | No         |
| 14700764        | 1000        | 6.5398216248 | No         |
| 3128036         | 1000        | 6.5207481384 | No         |
| 6337399         | 1000        | 7.1096420288 | No         |
| 61396           | 1000        | 6.7114830017 | No         |
| 10393545        | 1000        | 6.3705444336 | No         |
| 2147445644      | 1000        | 6.9284439087 | No         |

| Número a buscar | Tamaño de n | Tiempo real  | Encontrado |
|-----------------|-------------|--------------|------------|
| 1295390003      | 1000        | 6.3300132751 | No         |
| 450057883       | 1000        | 6.6208839417 | No         |
| 187645041       | 1000        | 6.5302848816 | No         |
| 1980098116      | 1000        | 6.2203407288 | No         |
| 152503          | 1000        | 6.3610076904 | No         |
| 5000            | 1000        | 7.1001052856 | No         |
| 1493283650      | 1000        | 6.3490867615 | No         |
| 214826          | 1000        | 6.8092346191 | No         |
| 1843349527      | 1000        | 6.4396858215 | No         |
| 1360839354      | 1000        | 6.5898895264 | No         |
| 2109248666      | 1000        | 6.3014030457 | No         |
| 2147470852      | 1000        | 6.8902969360 | No         |
| 0               | 1000        | 6.5779685974 | No         |
| 322486          | 5000        | 6.3705444336 | No         |
| 14700764        | 5000        | 6.6304206848 | No         |
| 3128036         | 5000        | 6.3800811768 | No         |
| 6337399         | 5000        | 6.4396858215 | No         |
| 61396           | 5000        | 6.8211555481 | No         |
| 10393545        | 5000        | 6.3991546631 | No         |
| 2147445644      | 5000        | 6.4897537231 | No         |
| 1295390003      | 5000        | 6.6304206848 | No         |
| 450057883       | 5000        | 6.4301490784 | No         |
| 187645041       | 5000        | 6.8306922913 | No         |
| 1980098116      | 5000        | 6.8998336792 | No         |
| 152503          | 5000        | 6.8116188049 | No         |
| 5000            | 5000        | 6.8306922913 | No         |
| 1493283650      | 5000        | 6.4706802368 | No         |
| 214826          | 5000        | 6.4802169800 | No         |

| Número a buscar | Tamaño de n | Tiempo real  | Encontrado |
|-----------------|-------------|--------------|------------|
| 1843349527      | 5000        | 6.5016746521 | No         |
| 1360839354      | 5000        | 6.7591667175 | No         |
| 2109248666      | 5000        | 6.4396858215 | No         |
| 2147470852      | 5000        | 6.5898895264 | No         |
| 0               | 5000        | 6.1488151550 | No         |
| 322486          | 10000       | 6.6518783569 | No         |
| 14700764        | 10000       | 6.6900253296 | No         |
| 3128036         | 10000       | 6.7400932312 | No         |
| 6337399         | 10000       | 7.3409080505 | No         |
| 61396           | 10000       | 7.9798698425 | No         |
| 10393545        | 10000       | 6.4802169800 | No         |
| 2147445644      | 10000       | 6.6590309143 | No         |
| 1295390003      | 10000       | 6.6995620728 | No         |
| 450057883       | 10000       | 6.7210197449 | No         |
| 187645041       | 10000       | 8.3589553833 | No         |
| 1980098116      | 10000       | 6.7090988159 | No         |
| 152503          | 10000       | 6.7305564880 | No         |
| 5000            | 10000       | 6.6304206848 | No         |
| 1493283650      | 10000       | 8.0490112305 | No         |
| 214826          | 10000       | 6.9189071655 | No         |
| 1843349527      | 10000       | 6.9379806519 | No         |
| 1360839354      | 10000       | 7.2503089905 | No         |
| 2109248666      | 10000       | 6.6494941711 | No         |
| 2147470852      | 10000       | 6.5207481384 | No         |
| 0               | 10000       | 6.6900253296 | No         |
| 322486          | 50000       | 9.6797943115 | No         |
| 14700764        | 50000       | 7.8082084656 | No         |
| 3128036         | 50000       | 9.1814994812 | No         |

| Número a buscar | Tamaño de n | Tiempo real   | Encontrado |
|-----------------|-------------|---------------|------------|
| 6337399         | 50000       | 10.4403495789 | No         |
| 61396           | 50000       | 8.1014633179  | No         |
| 10393545        | 50000       | 8.1586837769  | No         |
| 2147445644      | 50000       | 8.3208084106  | No         |
| 1295390003      | 50000       | 10.3688240051 | No         |
| 450057883       | 50000       | 8.9216232300  | No         |
| 187645041       | 50000       | 10.5214118958 | No         |
| 1980098116      | 50000       | 7.9798698425  | No         |
| 152503          | 50000       | 8.0108642578  | No         |
| 5000            | 50000       | 8.6498260498  | No         |
| 1493283650      | 50000       | 9.5415115356  | No         |
| 214826          | 50000       | 7.6794624329  | No         |
| 1843349527      | 50000       | 8.3088874817  | No         |
| 1360839354      | 50000       | 12.1307373047 | No         |
| 2109248666      | 50000       | 8.5091590881  | No         |
| 2147470852      | 50000       | 9.6988677979  | No         |
| 0               | 50000       | 9.6201896667  | No         |
| 322486          | 100000      | 9.7298622131  | No         |
| 14700764        | 100000      | 9.4008445740  | No         |
| 3128036         | 100000      | 9.3102455139  | No         |
| 6337399         | 100000      | 9.4795227051  | No         |
| 61396           | 100000      | 8.8906288147  | No         |
| 10393545        | 100000      | 9.5796585083  | No         |
| 2147445644      | 100000      | 10.4999542236 | No         |
| 1295390003      | 100000      | 8.7094306946  | No         |
| 450057883       | 100000      | 9.5796585083  | No         |
| 187645041       | 100000      | 12.1784210205 | No         |
| 1980098116      | 100000      | 12.4096870422 | No         |

| Número a buscar | Tamaño de n | Tiempo real   | Encontrado |
|-----------------|-------------|---------------|------------|
| 152503          | 100000      | 9.9802017212  | No         |
| 5000            | 100000      | 10.4498863220 | No         |
| 1493283650      | 100000      | 10.5786323547 | No         |
| 214826          | 100000      | 11.3987922668 | No         |
| 1843349527      | 100000      | 13.4086608887 | No         |
| 1360839354      | 100000      | 10.9791755676 | No         |
| 2109248666      | 100000      | 11.5180015564 | No         |
| 2147470852      | 100000      | 10.9815597534 | No         |
| 0               | 100000      | 9.4985961914  | No         |
| 322486          | 200000      | 13.4015083313 | No         |
| 14700764        | 200000      | 25.3415107727 | No         |
| 3128036         | 200000      | 13.3109092712 | No         |
| 6337399         | 200000      | 12.2499465942 | No         |
| 61396           | 200000      | 11.9495391846 | No         |
| 10393545        | 200000      | 12.0711326599 | No         |
| 2147445644      | 200000      | 12.1903419495 | No         |
| 1295390003      | 200000      | 13.5803222656 | No         |
| 450057883       | 200000      | 12.6314163208 | No         |
| 187645041       | 200000      | 12.4192237854 | No         |
| 1980098116      | 200000      | 14.6007537842 | No         |
| 152503          | 200000      | 12.8507614136 | No         |
| 5000            | 200000      | 12.2499465942 | No         |
| 1493283650      | 200000      | 14.6603584290 | No         |
| 214826          | 200000      | 12.4597549438 | No         |
| 1843349527      | 200000      | 13.7495994568 | No         |
| 1360839354      | 200000      | 13.1893157959 | No         |
| 2109248666      | 200000      | 12.4812126160 | No         |
| 2147470852      | 200000      | 15.1014328003 | No         |

| Número a buscar | Tamaño de n | Tiempo real   | Encontrado |
|-----------------|-------------|---------------|------------|
| 0               | 200000      | 12.1784210205 | No         |
| 322486          | 400000      | 18.4798240662 | No         |
| 14700764        | 400000      | 17.0803070068 | No         |
| 3128036         | 400000      | 19.9198722839 | No         |
| 6337399         | 400000      | 18.7587738037 | No         |
| 61396           | 400000      | 16.4890289307 | No         |
| 10393545        | 400000      | 16.8585777283 | No         |
| 2147445644      | 400000      | 16.6821479797 | No         |
| 1295390003      | 400000      | 20.2512741089 | No         |
| 450057883       | 400000      | 16.2005424500 | No         |
| 187645041       | 400000      | 16.2100791931 | No         |
| 1980098116      | 400000      | 19.1187858582 | No         |
| 152503          | 400000      | 16.7393684387 | No         |
| 5000            | 400000      | 21.0404396057 | No         |
| 1493283650      | 400000      | 19.0782546997 | No         |
| 214826          | 400000      | 20.8997726440 | No         |
| 1843349527      | 400000      | 18.4798240662 | No         |
| 1360839354      | 400000      | 17.2114372253 | No         |
| 2109248666      | 400000      | 21.2192535400 | No         |
| 2147470852      | 400000      | 16.9801712036 | No         |
| 0               | 400000      | 16.5200233459 | No         |
| 322486          | 600000      | 22.4590301514 | No         |
| 14700764        | 600000      | 23.3006477356 | No         |
| 3128036         | 600000      | 23.7107276917 | No         |
| 6337399         | 600000      | 28.4290313721 | No         |
| 61396           | 600000      | 23.3602523804 | No         |
| 10393545        | 600000      | 26.4596939087 | No         |
| 2147445644      | 600000      | 25.6085395813 | No         |

| Número a buscar | Tamaño de n | Tiempo real   | Encontrado |
|-----------------|-------------|---------------|------------|
| 1295390003      | 600000      | 23.4699249268 | No         |
| 450057883       | 600000      | 21.5601921082 | No         |
| 187645041       | 600000      | 22.4781036377 | No         |
| 1980098116      | 600000      | 21.0094451904 | No         |
| 152503          | 600000      | 27.2798538208 | No         |
| 5000            | 600000      | 20.9212303162 | No         |
| 1493283650      | 600000      | 19.9198722839 | Si         |
| 214826          | 600000      | 22.8786468506 | No         |
| 1843349527      | 600000      | 27.0414352417 | No         |
| 1360839354      | 600000      | 22.3207473755 | No         |
| 2109248666      | 600000      | 23.2791900635 | No         |
| 2147470852      | 600000      | 22.5996971130 | No         |
| 0               | 600000      | 23.5390663147 | No         |
| 322486          | 800000      | 26.9699096680 | No         |
| 14700764        | 800000      | 30.7202339172 | No         |
| 3128036         | 800000      | 25.5179405212 | No         |
| 6337399         | 800000      | 27.6184082031 | No         |
| 61396           | 800000      | 27.6184082031 | No         |
| 10393545        | 800000      | 37.9610061646 | No         |
| 2147445644      | 800000      | 26.7314910889 | No         |
| 1295390003      | 800000      | 27.0390510559 | No         |
| 450057883       | 800000      | 31.7311286926 | No         |
| 187645041       | 800000      | 32.6919555664 | No         |
| 1980098116      | 800000      | 31.4807891846 | No         |
| 152503          | 800000      | 28.4099578857 | No         |
| 5000            | 800000      | 25.5203247070 | No         |
| 1493283650      | 800000      | 20.2512741089 | Si         |
| 214826          | 800000      | 26.7815589905 | No         |

| Número a buscar | Tamaño de n | Tiempo real   | Encontrado |
|-----------------|-------------|---------------|------------|
| 1843349527      | 800000      | 35.2597236633 | No         |
| 1360839354      | 800000      | 26.7505645752 | No         |
| 2109248666      | 800000      | 28.5792350769 | No         |
| 2147470852      | 800000      | 26.4811515808 | No         |
| 0               | 800000      | 28.6006927490 | No         |
| 322486          | 1000000     | 41.5396690369 | No         |
| 14700764        | 1000000     | 34.0008735657 | No         |
| 3128036         | 1000000     | 33.3809852600 | No         |
| 6337399         | 1000000     | 31.1303138733 | No         |
| 61396           | 1000000     | 34.7495079041 | No         |
| 10393545        | 1000000     | 33.5502624512 | No         |
| 2147445644      | 1000000     | 33.1807136536 | No         |
| 1295390003      | 1000000     | 33.4215164185 | No         |
| 450057883       | 1000000     | 34.7495079041 | No         |
| 187645041       | 1000000     | 31.3401222229 | No         |
| 1980098116      | 1000000     | 34.9211692810 | No         |
| 152503          | 1000000     | 31.2900543213 | No         |
| 5000            | 1000000     | 36.2706184387 | No         |
| 1493283650      | 1000000     | 21.5601921082 | Si         |
| 214826          | 1000000     | 32.5584411621 | No         |
| 1843349527      | 1000000     | 37.9610061646 | No         |
| 1360839354      | 1000000     | 34.4681739807 | No         |
| 2109248666      | 1000000     | 31.5213203430 | No         |
| 2147470852      | 1000000     | 34.1606140137 | No         |
| 0               | 1000000     | 40.1091575623 | No         |
| 322486          | 2000000     | 59.8788261414 | No         |
| 14700764        | 2000000     | 57.7092170715 | No         |
| 3128036         | 2000000     | 41.7184829712 | Si         |



| Número a buscar | Tamaño de n | Tiempo real   | Encontrado |
|-----------------|-------------|---------------|------------|
| 6337399         | 2000000     | 56.1690330505 | No         |
| 61396           | 2000000     | 60.8086585999 | No         |
| 10393545        | 2000000     | 66.0109519958 | No         |
| 2147445644      | 2000000     | 67.5415992737 | No         |
| 1295390003      | 2000000     | 54.9483299255 | No         |
| 450057883       | 2000000     | 60.6393814087 | No         |
| 187645041       | 2000000     | 57.6996803284 | No         |
| 1980098116      | 2000000     | 59.9312782288 | No         |
| 152503          | 2000000     | 59.9193572998 | No         |
| 5000            | 2000000     | 66.5688514709 | No         |
| 1493283650      | 2000000     | 23.8895416260 | Si         |
| 214826          | 2000000     | 56.8318367004 | No         |
| 1843349527      | 2000000     | 55.1891326904 | No         |
| 1360839354      | 2000000     | 59.3996047974 | No         |
| 2109248666      | 2000000     | 57.1012496948 | No         |
| 2147470852      | 2000000     | 54.9697875977 | No         |
| 0               | 2000000     | 56.0402870178 | No         |
| 322486          | 3000000     | 98.8507270813 | No         |
| 14700764        | 3000000     | 79.9703598022 | No         |
| 3128036         | 3000000     | 44.9991226196 | Si         |
| 6337399         | 3000000     | 81.3198089600 | No         |
| 61396           | 3000000     | 82.1495056152 | No         |
| 10393545        | 3000000     | 82.8504562378 | No         |
| 2147445644      | 3000000     | 84.9103927612 | No         |
| 1295390003      | 3000000     | 80.2993774414 | No         |
| 450057883       | 3000000     | 85.2894783020 | No         |
| 187645041       | 3000000     | 82.7598571777 | No         |
| 1980098116      | 3000000     | 82.1304321289 | No         |

| Número a buscar | Tamaño de n | Tiempo real    | Encontrado |
|-----------------|-------------|----------------|------------|
| 152503          | 3000000     | 87.5401496887  | No         |
| 5000            | 3000000     | 77.5408744812  | No         |
| 1493283650      | 3000000     | 27.0485877991  | Si         |
| 214826          | 3000000     | 83.0197334290  | No         |
| 1843349527      | 3000000     | 70.3501701355  | Si         |
| 1360839354      | 3000000     | 85.5112075806  | No         |
| 2109248666      | 3000000     | 103.5690307617 | No         |
| 2147470852      | 3000000     | 103.0898094177 | No         |
| 0               | 3000000     | 80.1706314087  | No         |
| 322486          | 4000000     | 106.4491271973 | No         |
| 14700764        | 4000000     | 108.1919670105 | No         |
| 3128036         | 4000000     | 41.7089462280  | Si         |
| 6337399         | 4000000     | 113.9187812805 | No         |
| 61396           | 4000000     | 106.4491271973 | No         |
| 10393545        | 4000000     | 104.4201850891 | No         |
| 2147445644      | 4000000     | 109.0288162231 | No         |
| 1295390003      | 4000000     | 109.8203659058 | No         |
| 450057883       | 4000000     | 118.5894012451 | No         |
| 187645041       | 4000000     | 131.8097114563 | No         |
| 1980098116      | 4000000     | 140.6002044678 | No         |
| 152503          | 4000000     | 106.7900657654 | No         |
| 5000            | 4000000     | 114.8605346680 | No         |
| 1493283650      | 4000000     | 22.5687026978  | Si         |
| 214826          | 4000000     | 106.7209243774 | No         |
| 1843349527      | 4000000     | 86.1406326294  | Si         |
| 1360839354      | 4000000     | 123.9895820618 | No         |
| 2109248666      | 4000000     | 113.8305664062 | No         |
| 2147470852      | 4000000     | 111.6299629211 | No         |

| Número a buscar | Tamaño de n | Tiempo real    | Encontrado |
|-----------------|-------------|----------------|------------|
| 0               | 4000000     | 106.6493988037 | No         |
| 322486          | 5000000     | 130.9180259705 | No         |
| 14700764        | 5000000     | 139.5201683044 | No         |
| 3128036         | 5000000     | 41.2416458130  | Si         |
| 6337399         | 5000000     | 132.4701309204 | No         |
| 61396           | 5000000     | 135.2500915527 | No         |
| 10393545        | 5000000     | 142.3907279968 | No         |
| 2147445644      | 5000000     | 147.1900939941 | No         |
| 1295390003      | 5000000     | 171.4515686035 | No         |
| 450057883       | 5000000     | 138.8597488403 | No         |
| 187645041       | 5000000     | 142.8604125977 | No         |
| 1980098116      | 5000000     | 145.5807685852 | No         |
| 152503          | 5000000     | 130.4507255554 | No         |
| 5000            | 5000000     | 127.0103454590 | No         |
| 1493283650      | 5000000     | 19.7005271912  | Si         |
| 214826          | 5000000     | 140.6002044678 | No         |
| 1843349527      | 5000000     | 67.6298141479  | Si         |
| 1360839354      | 5000000     | 141.1080360413 | No         |
| 2109248666      | 5000000     | 140.3999328613 | No         |
| 2147470852      | 5000000     | 135.2405548096 | No         |
| 0               | 5000000     | 134.2821121216 | No         |
| 322486          | 6000000     | 177.1903038025 | No         |
| 14700764        | 6000000     | 192.4896240234 | No         |
| 3128036         | 6000000     | 40.4000282288  | Si         |
| 6337399         | 6000000     | 167.8681373596 | No         |
| 61396           | 6000000     | 168.4904098511 | No         |
| 10393545        | 6000000     | 156.6600799561 | No         |
| 2147445644      | 6000000     | 153.1600952148 | No         |

| Número a buscar | Tamaño de n | Tiempo real    | Encontrado |
|-----------------|-------------|----------------|------------|
| 1295390003      | 6000000     | 201.4517784119 | No         |
| 450057883       | 6000000     | 156.0711860657 | No         |
| 187645041       | 6000000     | 170.7196235657 | No         |
| 1980098116      | 6000000     | 166.8095588684 | No         |
| 152503          | 6000000     | 175.6906509399 | No         |
| 5000            | 6000000     | 180.2682876587 | No         |
| 1493283650      | 6000000     | 19.4692611694  | Si         |
| 214826          | 6000000     | 156.2118530273 | No         |
| 1843349527      | 6000000     | 67.7585601807  | Si         |
| 1360839354      | 6000000     | 170.0806617737 | No         |
| 2109248666      | 6000000     | 174.7107505798 | No         |
| 2147470852      | 6000000     | 180.6187629700 | No         |
| 0               | 6000000     | 165.5316352844 | No         |
| 322486          | 7000000     | 200.7508277893 | No         |
| 14700764        | 7000000     | 188.1790161133 | No         |
| 3128036         | 7000000     | 41.5182113647  | Si         |
| 6337399         | 7000000     | 168.7979698181 | Si         |
| 61396           | 7000000     | 183.2008361816 | No         |
| 10393545        | 7000000     | 200.2596855164 | Si         |
| 2147445644      | 7000000     | 204.3199539185 | No         |
| 1295390003      | 7000000     | 190.4606819153 | No         |
| 450057883       | 7000000     | 189.5999908447 | No         |
| 187645041       | 7000000     | 179.2597770691 | No         |
| 1980098116      | 7000000     | 182.9290390015 | No         |
| 152503          | 7000000     | 185.7995986938 | No         |
| 5000            | 7000000     | 174.3698120117 | No         |
| 1493283650      | 7000000     | 21.0690498352  | Si         |
| 214826          | 7000000     | 217.5211906433 | No         |

| Número a buscar | Tamaño de n | Tiempo real    | Encontrado |
|-----------------|-------------|----------------|------------|
| 1843349527      | 7000000     | 68.6907768250  | Si         |
| 1360839354      | 7000000     | 197.6299285889 | No         |
| 2109248666      | 7000000     | 183.3701133728 | Si         |
| 2147470852      | 7000000     | 183.2699775696 | No         |
| 0               | 7000000     | 178.6613464355 | No         |
| 322486          | 8000000     | 200.5100250244 | No         |
| 14700764        | 8000000     | 235.6100082397 | No         |
| 3128036         | 8000000     | 43.4589385986  | Si         |
| 6337399         | 8000000     | 188.3792877197 | Si         |
| 61396           | 8000000     | 225.8396148682 | No         |
| 10393545        | 8000000     | 179.2407035828 | Si         |
| 2147445644      | 8000000     | 228.7006378174 | No         |
| 1295390003      | 8000000     | 196.4282989502 | No         |
| 450057883       | 8000000     | 214.8795127869 | No         |
| 187645041       | 8000000     | 219.9697494507 | No         |
| 1980098116      | 8000000     | 203.6404609680 | No         |
| 152503          | 8000000     | 231.2397956848 | No         |
| 5000            | 8000000     | 195.3601837158 | No         |
| 1493283650      | 8000000     | 26.1878967285  | Si         |
| 214826          | 8000000     | 248.8303184509 | No         |
| 1843349527      | 8000000     | 83.2104682922  | Si         |
| 1360839354      | 8000000     | 220.4394340515 | No         |
| 2109248666      | 8000000     | 170.9294319153 | Si         |
| 2147470852      | 8000000     | 214.1499519348 | Si         |
| 0               | 8000000     | 217.0205116272 | No         |
| 322486          | 9000000     | 233.1995964050 | Si         |
| 14700764        | 9000000     | 243.2394027710 | No         |
| 3128036         | 9000000     | 41.4419174194  | Si         |

| Número a buscar | Tamaño de n | Tiempo real    | Encontrado |
|-----------------|-------------|----------------|------------|
| 6337399         | 9000000     | 169.5513725281 | Si         |
| 61396           | 9000000     | 242.6600456238 | No         |
| 10393545        | 9000000     | 192.3990249634 | Si         |
| 2147445644      | 9000000     | 251.3003349304 | No         |
| 1295390003      | 9000000     | 228.7602424622 | Si         |
| 450057883       | 9000000     | 253.5986900330 | No         |
| 187645041       | 9000000     | 252.8715133667 | No         |
| 1980098116      | 9000000     | 247.4403381348 | No         |
| 152503          | 9000000     | 251.8296241760 | No         |
| 5000            | 9000000     | 238.4710311890 | No         |
| 1493283650      | 9000000     | 20.3585624695  | Si         |
| 214826          | 9000000     | 240.0398254395 | No         |
| 1843349527      | 9000000     | 69.4012641907  | Si         |
| 1360839354      | 9000000     | 243.3490753174 | No         |
| 2109248666      | 9000000     | 177.0091056824 | Si         |
| 2147470852      | 9000000     | 213.5992050171 | Si         |
| 0               | 9000000     | 243.5302734375 | No         |
| 322486          | 10000000    | 230.7391166687 | Si         |
| 14700764        | 10000000    | 274.0597724915 | No         |
| 3128036         | 10000000    | 42.0498847961  | Si         |
| 6337399         | 10000000    | 171.2584495544 | Si         |
| 61396           | 10000000    | 263.5288238525 | No         |
| 10393545        | 10000000    | 191.4000511169 | Si         |
| 2147445644      | 10000000    | 298.5191345215 | No         |
| 1295390003      | 10000000    | 226.8385887146 | Si         |
| 450057883       | 10000000    | 265.1715278625 | No         |
| 187645041       | 10000000    | 268.4903144836 | No         |
| 1980098116      | 10000000    | 267.7893638611 | No         |

| Número a buscar | Tamaño de n | Tiempo real    | Encontrado |
|-----------------|-------------|----------------|------------|
| 152503          | 10000000    | 285.7303619385 | No         |
| 5000            | 10000000    | 307.2690963745 | No         |
| 1493283650      | 10000000    | 20.9999084473  | Si         |
| 214826          | 10000000    | 269.9208259583 | No         |
| 1843349527      | 10000000    | 70.0378417969  | Si         |
| 1360839354      | 10000000    | 272.9201316833 | No         |
| 2109248666      | 10000000    | 186.5983009338 | Si         |
| 2147470852      | 10000000    | 212.2902870178 | Si         |
| 0               | 10000000    | 265.2692794800 | No         |

Promedio n = 100

Promedio n = 1000

Promedio n = 5000

Promedio n = 10000

Promedio n = 50000

Promedio n = 100000

Promedio n = 200000

Promedio n = 400000

Promedio n = 600000

Promedio n = 800000

Promedio n = 1000000

Promedio n = 2000000

Promedio n = 3000000

Promedio n = 4000000

Promedio n = 5000000

Promedio n = 6000000

Promedio n = 7000000

Promedio n = 8000000

Promedio n = 9000000

Promedio n = 10000000

## Búsqueda Lineal Con Hilos

| Número a buscar | Tamaño de n | Tiempo real   | Encontrado |
|-----------------|-------------|---------------|------------|
| 322486          | 100         | 7.7605247498  | No         |
| 14700764        | 100         | 8.7809562683  | No         |
| 3128036         | 100         | 8.3994865417  | No         |
| 6337399         | 100         | 7.2288513184  | No         |
| 61396           | 100         | 7.3504447937  | No         |
| 10393545        | 100         | 7.7509880066  | No         |
| 2147445644      | 100         | 7.7509880066  | No         |
| 1295390003      | 100         | 7.7486038208  | No         |
| 450057883       | 100         | 7.4410438538  | No         |
| 187645041       | 100         | 7.4601173401  | No         |
| 1980098116      | 100         | 7.2693824768  | No         |
| 152503          | 100         | 7.1096420288  | No         |
| 5000            | 100         | 8.0800056458  | No         |
| 1493283650      | 100         | 7.3814392090  | No         |
| 214826          | 100         | 7.6603889465  | No         |
| 1843349527      | 100         | 6.5803527832  | No         |
| 1360839354      | 100         | 8.1300735474  | No         |
| 2109248666      | 100         | 7.7199935913  | No         |
| 2147470852      | 100         | 7.8487396240  | No         |
| 0               | 100         | 7.4911117554  | No         |
| 322486          | 1000        | 10.1184844971 | No         |
| 14700764        | 1000        | 7.2383880615  | No         |
| 3128036         | 1000        | 7.7414512634  | No         |
| 6337399         | 1000        | 7.2598457336  | No         |
| 61396           | 1000        | 7.2789192200  | No         |
| 10393545        | 1000        | 7.4315071106  | No         |
| 2147445644      | 1000        | 7.5387954712  | No         |



| Número a buscar | Tamaño de n | Tiempo real  | Encontrado |
|-----------------|-------------|--------------|------------|
| 1295390003      | 1000        | 7.6079368591 | No         |
| 450057883       | 1000        | 7.4696540833 | No         |
| 187645041       | 1000        | 7.7581405640 | No         |
| 1980098116      | 1000        | 7.7700614929 | No         |
| 152503          | 1000        | 7.6508522034 | No         |
| 5000            | 1000        | 7.3695182800 | No         |
| 1493283650      | 1000        | 7.5602531433 | No         |
| 214826          | 1000        | 7.6389312744 | No         |
| 1843349527      | 1000        | 7.6293945312 | No         |
| 1360839354      | 1000        | 6.8497657776 | No         |
| 2109248666      | 1000        | 7.6413154602 | No         |
| 2147470852      | 1000        | 7.7915191650 | No         |
| 0               | 1000        | 7.3790550232 | No         |
| 322486          | 5000        | 8.4495544434 | No         |
| 14700764        | 5000        | 7.6198577881 | No         |
| 3128036         | 5000        | 8.2492828369 | No         |
| 6337399         | 5000        | 7.6603889465 | No         |
| 61396           | 5000        | 6.9808959961 | No         |
| 10393545        | 5000        | 7.6603889465 | No         |
| 2147445644      | 5000        | 7.5221061707 | No         |
| 1295390003      | 5000        | 7.9703330994 | No         |
| 450057883       | 5000        | 7.2503089905 | No         |
| 187645041       | 5000        | 7.3790550232 | No         |
| 1980098116      | 5000        | 7.7104568481 | No         |
| 152503          | 5000        | 7.8201293945 | No         |
| 5000            | 5000        | 7.4315071106 | No         |
| 1493283650      | 5000        | 8.1801414490 | No         |
| 214826          | 5000        | 8.1706047058 | No         |

## Búsqueda Árbol Binario sin Hilos

| Número a buscar | Tamaño de n | Tiempo real   | Encontrado |
|-----------------|-------------|---------------|------------|
| 1843349527      | 5000        | 7.3409080505  | No         |
| 1360839354      | 5000        | 7.6079368591  | No         |
| 2109248666      | 5000        | 7.7199935913  | No         |
| 2147470852      | 5000        | 7.5697898865  | No         |
| 0               | 5000        | 7.8392028809  | No         |
| 322486          | 10000       | 8.0490112305  | No         |
| 14700764        | 10000       | 7.8892707825  | No         |
| 3128036         | 10000       | 7.7080726624  | No         |
| 6337399         | 10000       | 7.8296661377  | No         |
| 61396           | 10000       | 7.8296661377  | No         |
| 10393545        | 10000       | 7.7486038208  | No         |
| 2147445644      | 10000       | 9.1195106506  | No         |
| 1295390003      | 10000       | 7.9607963562  | No         |
| 450057883       | 10000       | 10.0183486938 | No         |
| 187645041       | 10000       | 8.5687637329  | No         |
| 1980098116      | 10000       | 8.0800056458  | No         |
| 152503          | 10000       | 7.8415870667  | No         |
| 5000            | 10000       | 7.9488754272  | No         |
| 1493283650      | 10000       | 10.3211402893 | No         |
| 214826          | 10000       | 8.0204010010  | No         |
| 1843349527      | 10000       | 9.5510482788  | No         |
| 1360839354      | 10000       | 9.3913078308  | No         |
| 2109248666      | 10000       | 7.6699256897  | No         |
| 2147470852      | 10000       | 9.0694427490  | No         |
| 0               | 10000       | 8.0680847168  | No         |
| 322486          | 50000       | 8.5902214050  | No         |
| 14700764        | 50000       | 8.6998939514  | No         |

| Número a buscar | Tamaño de n | Tiempo real   | Encontrado |
|-----------------|-------------|---------------|------------|
| 3128036         | 50000       | 10.5190277100 | No         |
| 6337399         | 50000       | 8.6402893066  | No         |
| 61396           | 50000       | 9.0599060059  | No         |
| 10393545        | 50000       | 9.3197822571  | No         |
| 2147445644      | 50000       | 9.8490715027  | No         |
| 1295390003      | 50000       | 10.0898742676 | No         |
| 450057883       | 50000       | 8.5711479187  | No         |
| 187645041       | 50000       | 9.5796585083  | No         |
| 1980098116      | 50000       | 12.1212005615 | No         |
| 152503          | 50000       | 8.9097023010  | No         |
| 5000            | 50000       | 9.6702575684  | No         |
| 1493283650      | 50000       | 10.1995468140 | No         |
| 214826          | 50000       | 8.5186958313  | No         |
| 1843349527      | 50000       | 9.4819068909  | No         |
| 1360839354      | 50000       | 8.6498260498  | No         |
| 2109248666      | 50000       | 7.8606605530  | No         |
| 2147470852      | 50000       | 9.3793869019  | No         |
| 0               | 50000       | 8.7094306946  | No         |
| 322486          | 100000      | 10.4618072510 | No         |
| 14700764        | 100000      | 10.6811523438 | No         |
| 3128036         | 100000      | 9.4890594482  | No         |
| 6337399         | 100000      | 11.8994712830 | No         |
| 61396           | 100000      | 11.1699104309 | No         |
| 10393545        | 100000      | 9.8490715027  | No         |
| 2147445644      | 100000      | 11.4583969116 | No         |
| 1295390003      | 100000      | 11.0101699829 | No         |
| 450057883       | 100000      | 8.9383125305  | No         |
| 187645041       | 100000      | 10.3616714478 | No         |

| Número a buscar | Tamaño de n | Tiempo real   | Encontrado |
|-----------------|-------------|---------------|------------|
| 1980098116      | 100000      | 9.8299980164  | No         |
| 152503          | 100000      | 8.9693069458  | No         |
| 5000            | 100000      | 9.5701217651  | No         |
| 1493283650      | 100000      | 10.6287002563 | No         |
| 214826          | 100000      | 9.4914436340  | No         |
| 1843349527      | 100000      | 9.2506408691  | No         |
| 1360839354      | 100000      | 10.0398063660 | No         |
| 2109248666      | 100000      | 9.4389915466  | No         |
| 2147470852      | 100000      | 9.2911720276  | No         |
| 0               | 100000      | 9.2291831970  | No         |
| 322486          | 200000      | 13.9689445496 | No         |
| 14700764        | 200000      | 12.8006935120 | No         |
| 3128036         | 200000      | 15.0895118713 | No         |
| 6337399         | 200000      | 10.7502937317 | No         |
| 61396           | 200000      | 12.4096870422 | No         |
| 10393545        | 200000      | 13.5302543640 | No         |
| 2147445644      | 200000      | 10.4618072510 | No         |
| 1295390003      | 200000      | 13.7901306152 | No         |
| 450057883       | 200000      | 13.6685371399 | No         |
| 187645041       | 200000      | 12.1688842773 | No         |
| 1980098116      | 200000      | 11.8899345398 | No         |
| 152503          | 200000      | 12.0496749878 | No         |
| 5000            | 200000      | 12.1402740479 | No         |
| 1493283650      | 200000      | 10.9601020813 | No         |
| 214826          | 200000      | 10.4594230652 | No         |
| 1843349527      | 200000      | 11.1293792725 | No         |
| 1360839354      | 200000      | 10.8599662781 | No         |
| 2109248666      | 200000      | 11.0507011414 | No         |

| Número a buscar | Tamaño de n | Tiempo real   | Encontrado |
|-----------------|-------------|---------------|------------|
| 2147470852      | 200000      | 14.3694877625 | No         |
| 0               | 200000      | 10.9314918518 | No         |
| 322486          | 400000      | 14.0595436096 | No         |
| 14700764        | 400000      | 13.3299827576 | No         |
| 3128036         | 400000      | 14.3313407898 | No         |
| 6337399         | 400000      | 17.5809860229 | No         |
| 61396           | 400000      | 16.5510177612 | No         |
| 10393545        | 400000      | 21.0499763489 | No         |
| 2147445644      | 400000      | 15.3517723083 | No         |
| 1295390003      | 400000      | 13.1392478943 | No         |
| 450057883       | 400000      | 14.8296356201 | No         |
| 187645041       | 400000      | 14.2288208008 | No         |
| 1980098116      | 400000      | 14.4505500793 | No         |
| 152503          | 400000      | 16.3102149963 | No         |
| 5000            | 400000      | 14.8200988770 | No         |
| 1493283650      | 400000      | 16.1910057068 | No         |
| 214826          | 400000      | 13.6995315552 | No         |
| 1843349527      | 400000      | 16.8108940125 | No         |
| 1360839354      | 400000      | 14.7104263306 | No         |
| 2109248666      | 400000      | 17.1089172363 | No         |
| 2147470852      | 400000      | 15.8691406250 | No         |
| 0               | 400000      | 13.6613845825 | No         |
| 322486          | 600000      | 17.5404548645 | No         |
| 14700764        | 600000      | 16.9897079468 | No         |
| 3128036         | 600000      | 16.1695480347 | No         |
| 6337399         | 600000      | 16.9086456299 | No         |
| 61396           | 600000      | 19.5217132568 | No         |
| 10393545        | 600000      | 16.3102149963 | No         |

| Número a buscar | Tamaño de n | Tiempo real   | Encontrado |
|-----------------|-------------|---------------|------------|
| 2147445644      | 600000      | 21.4290618896 | No         |
| 1295390003      | 600000      | 17.9696083069 | No         |
| 450057883       | 600000      | 16.9205665588 | No         |
| 187645041       | 600000      | 20.2298164368 | No         |
| 1980098116      | 600000      | 17.5809860229 | No         |
| 152503          | 600000      | 22.2706794739 | No         |
| 5000            | 600000      | 18.5394287109 | No         |
| 1493283650      | 600000      | 17.1804428101 | Si         |
| 214826          | 600000      | 17.1399116516 | No         |
| 1843349527      | 600000      | 18.5608863831 | No         |
| 1360839354      | 600000      | 20.0486183167 | No         |
| 2109248666      | 600000      | 21.7604637146 | No         |
| 2147470852      | 600000      | 19.5288658142 | No         |
| 0               | 600000      | 17.0111656189 | No         |
| 322486          | 800000      | 22.4089622498 | No         |
| 14700764        | 800000      | 25.1483917236 | No         |
| 3128036         | 800000      | 20.5898284912 | No         |
| 6337399         | 800000      | 25.9494781494 | No         |
| 61396           | 800000      | 21.8176841736 | No         |
| 10393545        | 800000      | 20.8282470703 | No         |
| 2147445644      | 800000      | 25.4297256470 | No         |
| 1295390003      | 800000      | 22.2492218018 | No         |
| 450057883       | 800000      | 34.5611572266 | No         |
| 187645041       | 800000      | 22.1204757690 | No         |
| 1980098116      | 800000      | 19.8602676392 | No         |
| 152503          | 800000      | 21.4409828186 | No         |
| 5000            | 800000      | 22.1800804138 | No         |
| 1493283650      | 800000      | 19.4001197815 | Si         |

| Número a buscar | Tamaño de n | Tiempo real   | Encontrado |
|-----------------|-------------|---------------|------------|
| 214826          | 800000      | 22.2492218018 | No         |
| 1843349527      | 800000      | 23.8204002380 | No         |
| 1360839354      | 800000      | 27.7805328369 | No         |
| 2109248666      | 800000      | 20.9712982178 | No         |
| 2147470852      | 800000      | 27.8306007385 | No         |
| 0               | 800000      | 20.1916694641 | No         |
| 322486          | 1000000     | 23.0693817139 | No         |
| 14700764        | 1000000     | 22.8118896484 | No         |
| 3128036         | 1000000     | 29.8905372620 | No         |
| 6337399         | 1000000     | 24.6691703796 | No         |
| 61396           | 1000000     | 25.5489349365 | No         |
| 10393545        | 1000000     | 22.5019454956 | No         |
| 2147445644      | 1000000     | 22.9907035828 | No         |
| 1295390003      | 1000000     | 23.0288505554 | No         |
| 450057883       | 1000000     | 22.7403640747 | No         |
| 187645041       | 1000000     | 24.5285034180 | No         |
| 1980098116      | 1000000     | 28.5601615906 | No         |
| 152503          | 1000000     | 22.7403640747 | No         |
| 5000            | 1000000     | 22.5710868835 | No         |
| 1493283650      | 1000000     | 26.9293785095 | Si         |
| 214826          | 1000000     | 23.7607955933 | No         |
| 1843349527      | 1000000     | 25.4702568054 | No         |
| 1360839354      | 1000000     | 23.0598449707 | No         |
| 2109248666      | 1000000     | 22.7499008179 | No         |
| 2147470852      | 1000000     | 27.7400016785 | No         |
| 0               | 1000000     | 21.8892097473 | No         |
| 322486          | 2000000     | 38.9599800110 | No         |
| 14700764        | 2000000     | 50.5304336548 | No         |

| Número a buscar | Tamaño de n | Tiempo real   | Encontrado |
|-----------------|-------------|---------------|------------|
| 3128036         | 2000000     | 38.1207466125 | Si         |
| 6337399         | 2000000     | 37.9419326782 | No         |
| 61396           | 2000000     | 40.6503677368 | No         |
| 10393545        | 2000000     | 41.2893295288 | No         |
| 2147445644      | 2000000     | 40.9507751465 | No         |
| 1295390003      | 2000000     | 37.1217727661 | No         |
| 450057883       | 2000000     | 36.9000434875 | No         |
| 187645041       | 2000000     | 36.3397598267 | No         |
| 1980098116      | 2000000     | 38.8097763062 | No         |
| 152503          | 2000000     | 37.0216369629 | No         |
| 5000            | 2000000     | 35.7913970947 | No         |
| 1493283650      | 2000000     | 36.6997718811 | Si         |
| 214826          | 2000000     | 57.3801994324 | No         |
| 1843349527      | 2000000     | 45.7096099854 | No         |
| 1360839354      | 2000000     | 40.4906272888 | No         |
| 2109248666      | 2000000     | 40.4310226440 | No         |
| 2147470852      | 2000000     | 39.4892692566 | No         |
| 0               | 2000000     | 40.0304794312 | No         |
| 322486          | 3000000     | 54.4905662537 | No         |
| 14700764        | 3000000     | 63.5004043579 | No         |
| 3128036         | 3000000     | 56.2095642090 | Si         |
| 6337399         | 3000000     | 60.3222846985 | No         |
| 61396           | 3000000     | 53.1101226807 | No         |
| 10393545        | 3000000     | 54.5001029968 | No         |
| 2147445644      | 3000000     | 52.7906417847 | No         |
| 1295390003      | 3000000     | 50.2109527588 | No         |
| 450057883       | 3000000     | 60.3795051575 | No         |
| 187645041       | 3000000     | 55.9711456299 | No         |



| Número a buscar | Tamaño de n | Tiempo real   | Encontrado |
|-----------------|-------------|---------------|------------|
| 1980098116      | 3000000     | 56.0092926025 | No         |
| 152503          | 3000000     | 52.7787208557 | No         |
| 5000            | 3000000     | 55.0699234009 | No         |
| 1493283650      | 3000000     | 49.9987602234 | Si         |
| 214826          | 3000000     | 53.3294677734 | No         |
| 1843349527      | 3000000     | 55.2010536194 | Si         |
| 1360839354      | 3000000     | 52.7811050415 | No         |
| 2109248666      | 3000000     | 54.3904304504 | No         |
| 2147470852      | 3000000     | 50.8499145508 | No         |
| 0               | 3000000     | 71.6209411621 | No         |
| 322486          | 4000000     | 68.9315795898 | No         |
| 14700764        | 4000000     | 90.0292396545 | No         |
| 3128036         | 4000000     | 65.6795501709 | Si         |
| 6337399         | 4000000     | 65.9489631653 | No         |
| 61396           | 4000000     | 64.7902488708 | No         |
| 10393545        | 4000000     | 64.3491744995 | No         |
| 2147445644      | 4000000     | 64.8212432861 | No         |
| 1295390003      | 4000000     | 72.0906257629 | No         |
| 450057883       | 4000000     | 69.6301460266 | No         |
| 187645041       | 4000000     | 67.2817230225 | No         |
| 1980098116      | 4000000     | 83.5013389587 | No         |
| 152503          | 4000000     | 72.1192359924 | No         |
| 5000            | 4000000     | 73.7905502319 | No         |
| 1493283650      | 4000000     | 63.6696815491 | Si         |
| 214826          | 4000000     | 75.7217407227 | No         |
| 1843349527      | 4000000     | 66.1683082581 | Si         |
| 1360839354      | 4000000     | 67.2292709351 | No         |
| 2109248666      | 4000000     | 85.3490829468 | No         |

| Número a buscar | Tamaño de n | Tiempo real    | Encontrado |
|-----------------|-------------|----------------|------------|
| 2147470852      | 4000000     | 65.3815269470  | No         |
| 0               | 4000000     | 69.0698623657  | No         |
| 322486          | 5000000     | 81.1696052551  | No         |
| 14700764        | 5000000     | 89.2400741577  | No         |
| 3128036         | 5000000     | 78.5994529724  | Si         |
| 6337399         | 5000000     | 89.7979736328  | No         |
| 61396           | 5000000     | 84.0711593628  | No         |
| 10393545        | 5000000     | 81.3317298889  | No         |
| 2147445644      | 5000000     | 82.0088386536  | No         |
| 1295390003      | 5000000     | 89.0707969666  | No         |
| 450057883       | 5000000     | 83.6396217346  | No         |
| 187645041       | 5000000     | 87.0800018311  | No         |
| 1980098116      | 5000000     | 92.3514366150  | No         |
| 152503          | 5000000     | 82.0994377136  | No         |
| 5000            | 5000000     | 80.7499885559  | No         |
| 1493283650      | 5000000     | 77.0688056946  | Si         |
| 214826          | 5000000     | 84.1093063354  | No         |
| 1843349527      | 5000000     | 83.3892822266  | Si         |
| 1360839354      | 5000000     | 84.3691825867  | No         |
| 2109248666      | 5000000     | 90.1985168457  | No         |
| 2147470852      | 5000000     | 82.1805000305  | No         |
| 0               | 5000000     | 88.5200500488  | No         |
| 322486          | 6000000     | 103.2495498657 | No         |
| 14700764        | 6000000     | 111.9184494019 | No         |
| 3128036         | 6000000     | 99.3609428406  | Si         |
| 6337399         | 6000000     | 107.7795028687 | No         |
| 61396           | 6000000     | 95.0479507446  | No         |
| 10393545        | 6000000     | 101.1610031128 | No         |

| Número a buscar | Tamaño de n | Tiempo real    | Encontrado |
|-----------------|-------------|----------------|------------|
| 2147445644      | 6000000     | 110.3496551514 | No         |
| 1295390003      | 6000000     | 100.5887985229 | No         |
| 450057883       | 6000000     | 94.7594642639  | No         |
| 187645041       | 6000000     | 95.2291488647  | No         |
| 1980098116      | 6000000     | 105.1592826843 | No         |
| 152503          | 6000000     | 93.5721397400  | No         |
| 5000            | 6000000     | 96.9886779785  | No         |
| 1493283650      | 6000000     | 97.3796844482  | Si         |
| 214826          | 6000000     | 142.3811912537 | No         |
| 1843349527      | 6000000     | 107.4886322021 | Si         |
| 1360839354      | 6000000     | 111.0291481018 | No         |
| 2109248666      | 6000000     | 96.4403152466  | No         |
| 2147470852      | 6000000     | 97.8899002075  | No         |
| 0               | 6000000     | 106.6613197327 | No         |
| 322486          | 7000000     | 107.3598861694 | No         |
| 14700764        | 7000000     | 107.1596145630 | No         |
| 3128036         | 7000000     | 108.3898544312 | Si         |
| 6337399         | 7000000     | 106.0795783997 | Si         |
| 61396           | 7000000     | 108.0107688904 | No         |
| 10393545        | 7000000     | 125.6680488586 | Si         |
| 2147445644      | 7000000     | 141.6492462158 | No         |
| 1295390003      | 7000000     | 148.9210128784 | No         |
| 450057883       | 7000000     | 132.9898834229 | No         |
| 187645041       | 7000000     | 138.2589340210 | No         |
| 1980098116      | 7000000     | 189.3806457520 | No         |
| 152503          | 7000000     | 118.8182830811 | No         |
| 5000            | 7000000     | 152.5688171387 | No         |
| 1493283650      | 7000000     | 136.7807388306 | Si         |

| Número a buscar | Tamaño de n | Tiempo real    | Encontrado |
|-----------------|-------------|----------------|------------|
| 214826          | 7000000     | 143.8999176025 | No         |
| 1843349527      | 7000000     | 133.4595680237 | Si         |
| 1360839354      | 7000000     | 153.9802551270 | No         |
| 2109248666      | 7000000     | 136.9905471802 | Si         |
| 2147470852      | 7000000     | 130.4292678833 | No         |
| 0               | 7000000     | 140.1305198669 | No         |
| 322486          | 8000000     | 148.5204696655 | No         |
| 14700764        | 8000000     | 197.9279518127 | No         |
| 3128036         | 8000000     | 139.5106315613 | Si         |
| 6337399         | 8000000     | 137.4793052673 | Si         |
| 61396           | 8000000     | 132.1387290955 | No         |
| 10393545        | 8000000     | 132.1005821228 | Si         |
| 2147445644      | 8000000     | 160.9897613525 | No         |
| 1295390003      | 8000000     | 171.9117164612 | No         |
| 450057883       | 8000000     | 167.9491996765 | No         |
| 187645041       | 8000000     | 154.5500755310 | No         |
| 1980098116      | 8000000     | 171.7519760132 | No         |
| 152503          | 8000000     | 185.5421066284 | No         |
| 5000            | 8000000     | 174.8800277710 | No         |
| 1493283650      | 8000000     | 129.0702819824 | Si         |
| 214826          | 8000000     | 161.3306999207 | No         |
| 1843349527      | 8000000     | 164.5517349243 | Si         |
| 1360839354      | 8000000     | 154.5405387878 | No         |
| 2109248666      | 8000000     | 132.9493522644 | Si         |
| 2147470852      | 8000000     | 147.7408409119 | Si         |
| 0               | 8000000     | 134.9020004272 | No         |
| 322486          | 9000000     | 153.1291007996 | Si         |
| 14700764        | 9000000     | 140.8815383911 | No         |

| Número a buscar | Tamaño de n | Tiempo real    | Encontrado |
|-----------------|-------------|----------------|------------|
| 3128036         | 9000000     | 244.9798583984 | Si         |
| 6337399         | 9000000     | 151.1907577515 | Si         |
| 61396           | 9000000     | 139.6393775940 | No         |
| 10393545        | 9000000     | 163.6600494385 | Si         |
| 2147445644      | 9000000     | 192.9688453674 | No         |
| 1295390003      | 9000000     | 150.8092880249 | Si         |
| 450057883       | 9000000     | 209.5007896423 | No         |
| 187645041       | 9000000     | 187.7284049988 | No         |
| 1980098116      | 9000000     | 196.4807510376 | No         |
| 152503          | 9000000     | 183.5894584656 | No         |
| 5000            | 9000000     | 182.1088790894 | No         |
| 1493283650      | 9000000     | 148.9591598511 | Si         |
| 214826          | 9000000     | 169.7206497192 | No         |
| 1843349527      | 9000000     | 151.2193679810 | Si         |
| 1360839354      | 9000000     | 187.3993873596 | No         |
| 2109248666      | 9000000     | 144.0382003784 | Si         |
| 2147470852      | 9000000     | 153.6083221436 | Si         |
| 0               | 9000000     | 165.6603813171 | No         |
| 322486          | 10000000    | 197.2389221191 | Si         |
| 14700764        | 10000000    | 198.2212066650 | No         |
| 3128036         | 10000000    | 152.4901390076 | Si         |
| 6337399         | 10000000    | 153.9587974548 | Si         |
| 61396           | 10000000    | 198.5096931458 | No         |
| 10393545        | 10000000    | 153.4199714661 | Si         |
| 2147445644      | 10000000    | 191.4811134338 | No         |
| 1295390003      | 10000000    | 152.2493362427 | Si         |
| 450057883       | 10000000    | 202.5103569031 | No         |
| 187645041       | 10000000    | 185.0390434265 | No         |

| Número a buscar | Tamaño de n | Tiempo real    | Encontrado |
|-----------------|-------------|----------------|------------|
| 1980098116      | 10000000    | 207.6101303101 | No         |
| 152503          | 10000000    | 195.6295967102 | No         |
| 5000            | 10000000    | 200.0713348389 | No         |
| 1493283650      | 10000000    | 157.4802398682 | Si         |
| 214826          | 10000000    | 184.9913597107 | No         |
| 1843349527      | 10000000    | 173.4185218811 | Si         |
| 1360839354      | 10000000    | 201.0512351990 | No         |
| 2109248666      | 10000000    | 149.2285728455 | Si         |
| 2147470852      | 10000000    | 157.5994491577 | Si         |
| 0               | 10000000    | 163.5098457336 | No         |

Promedio n = 100

Promedio n = 1000

Promedio n = 5000

Promedio n = 10000

Promedio n = 50000

Promedio n = 100000

Promedio n = 200000

Promedio n = 400000

Promedio n = 600000

Promedio n = 800000

Promedio n = 1000000

Promedio n = 2000000

Promedio n = 3000000

Promedio n = 4000000

Promedio n = 5000000

Promedio n = 6000000

Promedio n = 7000000

Promedio n = 8000000

Promedio n = 9000000

Promedio n = 10000000

# Búsqueda Árbol Binario sin Hilos

| Número a buscar | Tamaño de n | Tiempo real  | Encontrado |
|-----------------|-------------|--------------|------------|
| 322486          | 100         | 8.2898139954 | No         |
| 14700764        | 100         | 6.7496299744 | No         |
| 3128036         | 100         | 6.6280364990 | No         |
| 6337399         | 100         | 6.7520141602 | No         |
| 61396           | 100         | 7.8797340393 | No         |
| 10393545        | 100         | 8.6784362793 | No         |
| 2147445644      | 100         | 6.0391426086 | No         |
| 1295390003      | 100         | 6.3800811768 | No         |
| 450057883       | 100         | 6.0391426086 | No         |
| 187645041       | 100         | 6.4897537231 | No         |
| 1980098116      | 100         | 6.1798095703 | No         |
| 152503          | 100         | 6.1798095703 | No         |
| 5000            | 100         | 6.0391426086 | No         |
| 1493283650      | 100         | 6.5803527832 | No         |
| 214826          | 100         | 6.1607360840 | No         |
| 1843349527      | 100         | 6.5588951111 | No         |
| 1360839354      | 100         | 6.0319900513 | No         |
| 2109248666      | 100         | 6.3395500183 | No         |
| 2147470852      | 100         | 6.3085556030 | No         |
| 0               | 100         | 7.3790550232 | No         |
| 322486          | 1000        | 6.7591667175 | No         |
| 14700764        | 1000        | 5.9199333191 | No         |
| 3128036         | 1000        | 6.2799453735 | No         |
| 6337399         | 1000        | 7.5197219849 | No         |
| 61396           | 1000        | 6.1488151550 | No         |
| 10393545        | 1000        | 6.2584877014 | No         |
| 2147445644      | 1000        | 6.2108039856 | No         |
| 1295390003      | 1000        | 6.5302848816 | No         |

| Número a buscar | Tamaño de n | Tiempo real  | Encontrado |
|-----------------|-------------|--------------|------------|
| 450057883       | 1000        | 6.2108039856 | No         |
| 187645041       | 1000        | 7.6603889465 | No         |
| 1980098116      | 1000        | 6.1607360840 | No         |
| 152503          | 1000        | 7.2407722473 | No         |
| 5000            | 1000        | 7.3409080505 | No         |
| 1493283650      | 1000        | 6.2489509583 | No         |
| 214826          | 1000        | 6.1583518982 | No         |
| 1843349527      | 1000        | 6.0892105103 | No         |
| 1360839354      | 1000        | 6.0987472534 | No         |
| 2109248666      | 1000        | 6.2584877014 | No         |
| 2147470852      | 1000        | 6.0391426086 | No         |
| 0               | 1000        | 6.0606002808 | No         |
| 322486          | 5000        | 5.9890747070 | No         |
| 14700764        | 5000        | 7.6007843018 | No         |
| 3128036         | 5000        | 6.1416625977 | No         |
| 6337399         | 5000        | 5.9199333191 | No         |
| 61396           | 5000        | 6.3991546631 | No         |
| 10393545        | 5000        | 6.3300132751 | No         |
| 2147445644      | 5000        | 6.2680244446 | No         |
| 1295390003      | 5000        | 6.1416625977 | No         |
| 450057883       | 5000        | 6.4110755920 | No         |
| 187645041       | 5000        | 6.2990188599 | No         |
| 1980098116      | 5000        | 6.2680244446 | No         |
| 152503          | 5000        | 6.3085556030 | No         |
| 5000            | 5000        | 6.4420700073 | No         |
| 1493283650      | 5000        | 6.1798095703 | No         |
| 214826          | 5000        | 6.4802169800 | No         |
| 1843349527      | 5000        | 6.8187713623 | No         |



| Número a buscar | Tamaño de n | Tiempo real  | Encontrado |
|-----------------|-------------|--------------|------------|
| 1360839354      | 5000        | 6.3991546631 | No         |
| 2109248666      | 5000        | 6.5517425537 | No         |
| 2147470852      | 5000        | 6.2799453735 | No         |
| 0               | 5000        | 6.3204765320 | No         |
| 322486          | 10000       | 7.2097778320 | No         |
| 14700764        | 10000       | 6.5612792969 | No         |
| 3128036         | 10000       | 7.0285797119 | No         |
| 6337399         | 10000       | 7.1692466736 | No         |
| 61396           | 10000       | 7.0786476135 | No         |
| 10393545        | 10000       | 6.8616867065 | No         |
| 2147445644      | 10000       | 7.6007843018 | No         |
| 1295390003      | 10000       | 8.0204010010 | No         |
| 450057883       | 10000       | 7.8606605530 | No         |
| 187645041       | 10000       | 6.4110755920 | No         |
| 1980098116      | 10000       | 6.9808959961 | No         |
| 152503          | 10000       | 6.3490867615 | No         |
| 5000            | 10000       | 7.2908401489 | No         |
| 1493283650      | 10000       | 6.7281723022 | No         |
| 214826          | 10000       | 6.9713592529 | No         |
| 1843349527      | 10000       | 7.2813034058 | No         |
| 1360839354      | 10000       | 7.2407722473 | No         |
| 2109248666      | 10000       | 6.9403648376 | No         |
| 2147470852      | 10000       | 6.4587593079 | No         |
| 0               | 10000       | 6.9594383240 | No         |
| 322486          | 50000       | 7.2908401489 | No         |
| 14700764        | 50000       | 7.4100494385 | No         |
| 3128036         | 50000       | 7.2193145752 | No         |
| 6337399         | 50000       | 7.8701972961 | No         |

| Número a buscar | Tamaño de n | Tiempo real   | Encontrado |
|-----------------|-------------|---------------|------------|
| 61396           | 50000       | 6.7186355591  | No         |
| 10393545        | 50000       | 6.9904327393  | No         |
| 2147445644      | 50000       | 6.9618225098  | No         |
| 1295390003      | 50000       | 7.0691108704  | No         |
| 450057883       | 50000       | 6.5898895264  | No         |
| 187645041       | 50000       | 7.2598457336  | No         |
| 1980098116      | 50000       | 9.6607208252  | No         |
| 152503          | 50000       | 6.9808959961  | No         |
| 5000            | 50000       | 8.6283683777  | No         |
| 1493283650      | 50000       | 7.0905685425  | No         |
| 214826          | 50000       | 6.8783760071  | No         |
| 1843349527      | 50000       | 7.5411796570  | No         |
| 1360839354      | 50000       | 7.1096420288  | No         |
| 2109248666      | 50000       | 6.8092346191  | No         |
| 2147470852      | 50000       | 7.0405006409  | No         |
| 0               | 50000       | 7.6913833618  | No         |
| 322486          | 100000      | 7.9894065857  | No         |
| 14700764        | 100000      | 11.2509727478 | No         |
| 3128036         | 100000      | 7.4100494385  | No         |
| 6337399         | 100000      | 6.9000434875  | No         |
| 61396           | 100000      | 7.5078010559  | No         |
| 10393545        | 100000      | 7.3385238647  | No         |
| 2147445644      | 100000      | 7.5387954712  | No         |
| 1295390003      | 100000      | 7.5197219849  | No         |
| 450057883       | 100000      | 6.9379806519  | No         |
| 187645041       | 100000      | 8.3994865417  | No         |
| 1980098116      | 100000      | 9.2911720276  | No         |
| 152503          | 100000      | 9.2315330505  | No         |

| Número a buscar | Tamaño de n | Tiempo real  | Encontrado |
|-----------------|-------------|--------------|------------|
| 5000            | 100000      | 8.1396102905 | No         |
| 1493283650      | 100000      | 7.9798698425 | No         |
| 214826          | 100000      | 7.8582763672 | No         |
| 1843349527      | 100000      | 7.5292587280 | No         |
| 1360839354      | 100000      | 7.2288513184 | No         |
| 2109248666      | 100000      | 6.8593025208 | No         |
| 2147470852      | 100000      | 7.6794624329 | No         |
| 0               | 100000      | 7.1716308594 | No         |
| 322486          | 200000      | 7.2193145752 | No         |
| 14700764        | 200000      | 7.7605247498 | No         |
| 3128036         | 200000      | 7.8487396240 | No         |
| 6337399         | 200000      | 7.2097778320 | No         |
| 61396           | 200000      | 8.9383125305 | No         |
| 10393545        | 200000      | 7.3211097717 | No         |
| 2147445644      | 200000      | 7.3409080505 | No         |
| 1295390003      | 200000      | 8.2492828369 | No         |
| 450057883       | 200000      | 6.8497657776 | No         |
| 187645041       | 200000      | 7.0905685425 | No         |
| 1980098116      | 200000      | 6.9904327393 | No         |
| 152503          | 200000      | 7.3790550232 | No         |
| 5000            | 200000      | 7.5197219849 | No         |
| 1493283650      | 200000      | 7.2002410889 | No         |
| 214826          | 200000      | 7.5697898865 | No         |
| 1843349527      | 200000      | 6.5302848816 | No         |
| 1360839354      | 200000      | 8.0895423889 | No         |
| 2109248666      | 200000      | 7.3885917664 | No         |
| 2147470852      | 200000      | 7.3194503784 | No         |
| 0               | 200000      | 6.8807601929 | No         |

| Número a buscar | Tamaño de n | Tiempo real  | Encontrado |
|-----------------|-------------|--------------|------------|
| 322486          | 400000      | 6.5398216248 | No         |
| 14700764        | 400000      | 6.9499015808 | No         |
| 3128036         | 400000      | 6.9713592529 | No         |
| 6337399         | 400000      | 7.4410438538 | No         |
| 61396           | 400000      | 7.2193145752 | No         |
| 10393545        | 400000      | 7.1096420288 | No         |
| 2147445644      | 400000      | 7.6198577881 | No         |
| 1295390003      | 400000      | 7.1501731873 | No         |
| 450057883       | 400000      | 7.2789192200 | No         |
| 187645041       | 400000      | 9.4199180603 | No         |
| 1980098116      | 400000      | 7.5602531433 | No         |
| 152503          | 400000      | 6.9284439087 | No         |
| 5000            | 400000      | 7.2312355042 | No         |
| 1493283650      | 400000      | 7.2002410889 | No         |
| 214826          | 400000      | 7.0810317993 | No         |
| 1843349527      | 400000      | 7.2598457336 | No         |
| 1360839354      | 400000      | 7.3790550232 | No         |
| 2109248666      | 400000      | 7.5411796570 | No         |
| 2147470852      | 400000      | 7.4696540833 | No         |
| 0               | 400000      | 7.4291229248 | No         |
| 322486          | 600000      | 7.4505805969 | No         |
| 14700764        | 600000      | 7.1406364441 | No         |
| 3128036         | 600000      | 9.0813636780 | No         |
| 6337399         | 600000      | 7.0786476135 | No         |
| 61396           | 600000      | 7.3099136353 | No         |
| 10393545        | 600000      | 6.3014030457 | No         |
| 2147445644      | 600000      | 6.6184997559 | No         |
| 1295390003      | 600000      | 6.5994262695 | No         |

| Número a buscar | Tamaño de n | Tiempo real  | Encontrado |
|-----------------|-------------|--------------|------------|
| 450057883       | 600000      | 7.1310997009 | No         |
| 187645041       | 600000      | 7.6293945312 | No         |
| 1980098116      | 600000      | 7.2312355042 | No         |
| 152503          | 600000      | 7.1096420288 | No         |
| 5000            | 600000      | 6.9999694824 | No         |
| 1493283650      | 600000      | 7.8105926514 | Si         |
| 214826          | 600000      | 9.5295906067 | No         |
| 1843349527      | 600000      | 7.5793266296 | No         |
| 1360839354      | 600000      | 8.7785720825 | No         |
| 2109248666      | 600000      | 6.8807601929 | No         |
| 2147470852      | 600000      | 7.8606605530 | No         |
| 0               | 600000      | 7.6889991760 | No         |
| 322486          | 800000      | 8.6089324951 | No         |
| 14700764        | 800000      | 8.2206726074 | No         |
| 3128036         | 800000      | 6.8497657776 | No         |
| 6337399         | 800000      | 6.8020820618 | No         |
| 61396           | 800000      | 7.7199935913 | No         |
| 10393545        | 800000      | 7.6603889465 | No         |
| 2147445644      | 800000      | 7.9298019409 | No         |
| 1295390003      | 800000      | 7.2312355042 | No         |
| 450057883       | 800000      | 7.8988075256 | No         |
| 187645041       | 800000      | 8.0013275146 | No         |
| 1980098116      | 800000      | 7.4505805969 | No         |
| 152503          | 800000      | 7.3003768921 | No         |
| 5000            | 800000      | 7.8511238098 | No         |
| 1493283650      | 800000      | 6.9093704224 | Si         |
| 214826          | 800000      | 7.6484680176 | No         |
| 1843349527      | 800000      | 9.0918655396 | No         |

| Número a buscar | Tamaño de n | Tiempo real   | Encontrado |
|-----------------|-------------|---------------|------------|
| 1360839354      | 800000      | 6.2322616577  | No         |
| 2109248666      | 800000      | 6.8807601929  | No         |
| 2147470852      | 800000      | 8.5306167603  | No         |
| 0               | 800000      | 7.6007843018  | No         |
| 322486          | 1000000     | 8.3208084106  | No         |
| 14700764        | 1000000     | 7.2288513184  | No         |
| 3128036         | 1000000     | 7.2383880615  | No         |
| 6337399         | 1000000     | 7.5292587280  | No         |
| 61396           | 1000000     | 7.3194503784  | No         |
| 10393545        | 1000000     | 7.3099136353  | No         |
| 2147445644      | 1000000     | 10.3514099121 | No         |
| 1295390003      | 1000000     | 8.0394744873  | No         |
| 450057883       | 1000000     | 7.8916549683  | No         |
| 187645041       | 1000000     | 7.4696540833  | No         |
| 1980098116      | 1000000     | 6.9808959961  | No         |
| 152503          | 1000000     | 7.6699256897  | No         |
| 5000            | 1000000     | 7.4100494385  | No         |
| 1493283650      | 1000000     | 7.2097778320  | Si         |
| 214826          | 1000000     | 7.3814392090  | No         |
| 1843349527      | 1000000     | 7.6580047607  | No         |
| 1360839354      | 1000000     | 9.1195106506  | No         |
| 2109248666      | 1000000     | 7.3003768921  | No         |
| 2147470852      | 1000000     | 7.4005126953  | No         |
| 0               | 1000000     | 7.5006484985  | No         |
| 322486          | 2000000     | 8.1586837769  | No         |
| 14700764        | 2000000     | 7.5101852417  | No         |
| 3128036         | 2000000     | 7.3409080505  | Si         |
| 6337399         | 2000000     | 7.8082084656  | No         |

| Número a buscar | Tamaño de n | Tiempo real   | Encontrado |
|-----------------|-------------|---------------|------------|
| 61396           | 2000000     | 7.9417228699  | No         |
| 10393545        | 2000000     | 7.1501731873  | No         |
| 2147445644      | 2000000     | 7.5411796570  | No         |
| 1295390003      | 2000000     | 8.2707405090  | No         |
| 450057883       | 2000000     | 7.1597099304  | No         |
| 187645041       | 2000000     | 8.1706047058  | No         |
| 1980098116      | 2000000     | 8.9788436890  | No         |
| 152503          | 2000000     | 8.7904930115  | No         |
| 5000            | 2000000     | 8.9621543884  | No         |
| 1493283650      | 2000000     | 8.6688995361  | Si         |
| 214826          | 2000000     | 7.9202651978  | No         |
| 1843349527      | 2000000     | 7.1692466736  | No         |
| 1360839354      | 2000000     | 6.8688392639  | No         |
| 2109248666      | 2000000     | 7.5197219849  | No         |
| 2147470852      | 2000000     | 8.0013275146  | No         |
| 0               | 2000000     | 7.0381164551  | No         |
| 322486          | 3000000     | 7.3695182800  | No         |
| 14700764        | 3000000     | 11.1317634583 | No         |
| 3128036         | 3000000     | 9.2816352844  | Si         |
| 6337399         | 3000000     | 8.1801414490  | No         |
| 61396           | 3000000     | 8.0800056458  | No         |
| 10393545        | 3000000     | 7.5793266296  | No         |
| 2147445644      | 3000000     | 8.2993507385  | No         |
| 1295390003      | 3000000     | 7.3909759521  | No         |
| 450057883       | 3000000     | 7.8701972961  | No         |
| 187645041       | 3000000     | 9.3603134155  | No         |
| 1980098116      | 3000000     | 8.6903572083  | No         |
| 152503          | 3000000     | 7.3599815369  | No         |

| Número a buscar | Tamaño de n | Tiempo real  | Encontrado |
|-----------------|-------------|--------------|------------|
| 5000            | 3000000     | 8.5520744324 | No         |
| 1493283650      | 3000000     | 7.9512596130 | Si         |
| 214826          | 3000000     | 7.5197219849 | No         |
| 1843349527      | 3000000     | 7.7795982361 | Si         |
| 1360839354      | 3000000     | 9.3388557434 | No         |
| 2109248666      | 3000000     | 7.4505805969 | No         |
| 2147470852      | 3000000     | 7.2002410889 | No         |
| 0               | 3000000     | 8.7904930115 | No         |
| 322486          | 4000000     | 8.0895423889 | No         |
| 14700764        | 4000000     | 7.8606605530 | No         |
| 3128036         | 4000000     | 8.4185600281 | Si         |
| 6337399         | 4000000     | 7.8201293945 | No         |
| 61396           | 4000000     | 8.2993507385 | No         |
| 10393545        | 4000000     | 8.2683563232 | No         |
| 2147445644      | 4000000     | 8.7690353394 | No         |
| 1295390003      | 4000000     | 7.7891349792 | No         |
| 450057883       | 4000000     | 7.3695182800 | No         |
| 187645041       | 4000000     | 8.9192390442 | No         |
| 1980098116      | 4000000     | 9.1814994812 | No         |
| 152503          | 4000000     | 7.4195861816 | No         |
| 5000            | 4000000     | 8.9097023010 | No         |
| 1493283650      | 4000000     | 8.3804130554 | Si         |
| 214826          | 4000000     | 8.1491470337 | No         |
| 1843349527      | 4000000     | 8.2206726074 | Si         |
| 1360839354      | 4000000     | 9.0384483337 | No         |
| 2109248666      | 4000000     | 8.4304809570 | No         |
| 2147470852      | 4000000     | 8.2302093506 | No         |
| 0               | 4000000     | 8.7499618530 | No         |



| Número a buscar | Tamaño de n | Tiempo real  | Encontrado |
|-----------------|-------------|--------------|------------|
| 322486          | 5000000     | 8.2206726074 | No         |
| 14700764        | 5000000     | 9.4199180603 | No         |
| 3128036         | 5000000     | 9.0098381042 | Si         |
| 6337399         | 5000000     | 8.6307525635 | No         |
| 61396           | 5000000     | 8.6903572083 | No         |
| 10393545        | 5000000     | 8.2206726074 | No         |
| 2147445644      | 5000000     | 9.0503692627 | No         |
| 1295390003      | 5000000     | 8.8310241699 | No         |
| 450057883       | 5000000     | 8.1706047058 | No         |
| 187645041       | 5000000     | 7.9011917114 | No         |
| 1980098116      | 5000000     | 8.4996223450 | No         |
| 152503          | 5000000     | 8.7404251099 | No         |
| 5000            | 5000000     | 8.5783004761 | No         |
| 1493283650      | 5000000     | 8.0013275146 | Si         |
| 214826          | 5000000     | 7.2312355042 | No         |
| 1843349527      | 5000000     | 7.7795982361 | Si         |
| 1360839354      | 5000000     | 9.0398063660 | No         |
| 2109248666      | 5000000     | 8.9502334595 | No         |
| 2147470852      | 5000000     | 8.5401535034 | No         |
| 0               | 5000000     | 7.3695182800 | No         |
| 322486          | 6000000     | 6.9212913513 | No         |
| 14700764        | 6000000     | 9.2816352844 | No         |
| 3128036         | 6000000     | 8.2111358643 | Si         |
| 6337399         | 6000000     | 7.3409080505 | No         |
| 61396           | 6000000     | 9.1004371643 | No         |
| 10393545        | 6000000     | 8.9311599731 | No         |
| 2147445644      | 6000000     | 7.5411796570 | No         |
| 1295390003      | 6000000     | 7.5888633728 | No         |

| Número a buscar | Tamaño de n | Tiempo real  | Encontrado |
|-----------------|-------------|--------------|------------|
| 450057883       | 6000000     | 9.2101097107 | No         |
| 187645041       | 6000000     | 8.7213516235 | No         |
| 1980098116      | 6000000     | 9.2291831970 | No         |
| 152503          | 6000000     | 8.9001655579 | No         |
| 5000            | 6000000     | 8.8310241699 | No         |
| 1493283650      | 6000000     | 9.0408325195 | Si         |
| 214826          | 6000000     | 8.6903572083 | No         |
| 1843349527      | 6000000     | 7.5411796570 | Si         |
| 1360839354      | 6000000     | 8.2295150757 | No         |
| 2109248666      | 6000000     | 8.4805488586 | No         |
| 2147470852      | 6000000     | 7.8201293945 | No         |
| 0               | 6000000     | 9.3102455139 | No         |
| 322486          | 7000000     | 8.7809562683 | No         |
| 14700764        | 7000000     | 8.1682205200 | No         |
| 3128036         | 7000000     | 7.1811676025 | Si         |
| 6337399         | 7000000     | 9.3007087708 | Si         |
| 61396           | 7000000     | 7.8797340393 | No         |
| 10393545        | 7000000     | 8.0418586731 | Si         |
| 2147445644      | 7000000     | 8.6307525635 | No         |
| 1295390003      | 7000000     | 7.9083442688 | No         |
| 450057883       | 7000000     | 8.8191032410 | No         |
| 187645041       | 7000000     | 8.4209442139 | No         |
| 1980098116      | 7000000     | 8.1610679626 | No         |
| 152503          | 7000000     | 8.8405609131 | No         |
| 5000            | 7000000     | 8.2492828369 | No         |
| 1493283650      | 7000000     | 7.3814392090 | Si         |
| 214826          | 7000000     | 7.7581405640 | No         |
| 1843349527      | 7000000     | 8.2707405090 | Si         |

| Número a buscar | Tamaño de n | Tiempo real  | Encontrado |
|-----------------|-------------|--------------|------------|
| 1360839354      | 7000000     | 8.7404251099 | No         |
| 2109248666      | 7000000     | 8.2612037659 | Si         |
| 2147470852      | 7000000     | 8.8000297546 | No         |
| 0               | 7000000     | 8.7881088257 | No         |
| 322486          | 8000000     | 9.2101097107 | No         |
| 14700764        | 8000000     | 8.7189674377 | No         |
| 3128036         | 8000000     | 8.6212158203 | Si         |
| 6337399         | 8000000     | 8.9716911316 | Si         |
| 61396           | 8000000     | 8.0299377441 | No         |
| 10393545        | 8000000     | 8.9812278748 | Si         |
| 2147445644      | 8000000     | 9.6583366394 | No         |
| 1295390003      | 8000000     | 8.8691711426 | No         |
| 450057883       | 8000000     | 9.5677375793 | No         |
| 187645041       | 8000000     | 8.7380409241 | No         |
| 1980098116      | 8000000     | 8.3804130554 | No         |
| 152503          | 8000000     | 7.5793266296 | No         |
| 5000            | 8000000     | 9.6893310547 | No         |
| 1493283650      | 8000000     | 8.8286399841 | Si         |
| 214826          | 8000000     | 8.6784362793 | No         |
| 1843349527      | 8000000     | 8.6688995361 | Si         |
| 1360839354      | 8000000     | 8.6903572083 | No         |
| 2109248666      | 8000000     | 8.0800056458 | Si         |
| 2147470852      | 8000000     | 9.2196464539 | Si         |
| 0               | 8000000     | 8.7094306946 | No         |
| 322486          | 9000000     | 8.9406967163 | Si         |
| 14700764        | 9000000     | 8.7499618530 | No         |
| 3128036         | 9000000     | 8.7094306946 | Si         |
| 6337399         | 9000000     | 7.7199935913 | Si         |

| Número a buscar | Tamaño de n | Tiempo real  | Encontrado |
|-----------------|-------------|--------------|------------|
| 61396           | 9000000     | 9.2186203003 | No         |
| 10393545        | 9000000     | 7.5984001160 | Si         |
| 2147445644      | 9000000     | 7.8201293945 | No         |
| 1295390003      | 9000000     | 7.7915191650 | Si         |
| 450057883       | 9000000     | 7.5507164001 | No         |
| 187645041       | 9000000     | 8.0680847168 | No         |
| 1980098116      | 9000000     | 9.3603134155 | No         |
| 152503          | 9000000     | 9.3817710876 | No         |
| 5000            | 9000000     | 8.9216232300 | No         |
| 1493283650      | 9000000     | 7.7199935913 | Si         |
| 214826          | 9000000     | 7.8105926514 | No         |
| 1843349527      | 9000000     | 8.9597702026 | Si         |
| 1360839354      | 9000000     | 8.1300735474 | No         |
| 2109248666      | 9000000     | 7.8487396240 | Si         |
| 2147470852      | 9000000     | 8.9693069458 | Si         |
| 0               | 9000000     | 8.6188316345 | No         |
| 322486          | 10000000    | 8.9287757874 | Si         |
| 14700764        | 10000000    | 7.9798698425 | No         |
| 3128036         | 10000000    | 7.9321861267 | Si         |
| 6337399         | 10000000    | 9.3197822571 | Si         |
| 61396           | 10000000    | 7.0405006409 | No         |
| 10393545        | 10000000    | 9.0789794922 | Si         |
| 2147445644      | 10000000    | 9.2411041260 | No         |
| 1295390003      | 10000000    | 8.3804130554 | Si         |
| 450057883       | 10000000    | 8.1110000610 | No         |
| 187645041       | 10000000    | 9.5486640930 | No         |
| 1980098116      | 10000000    | 8.8405609131 | No         |
| 152503          | 10000000    | 7.6317787170 | No         |

| Número a buscar | Tamaño de n | Tiempo real  | Encontrado |
|-----------------|-------------|--------------|------------|
| 5000            | 10000000    | 9.4389915466 | No         |
| 1493283650      | 10000000    | 8.8000297546 | Si         |
| 214826          | 10000000    | 7.9202651978 | No         |
| 1843349527      | 10000000    | 9.4914436340 | Si         |
| 1360839354      | 10000000    | 7.3218345642 | No         |
| 2109248666      | 10000000    | 8.1014633179 | Si         |
| 2147470852      | 10000000    | 7.4982643127 | Si         |
| 0               | 10000000    | 7.9107284546 | No         |

Promedio n = 100

Promedio n = 1000

Promedio n = 5000

Promedio n = 10000

Promedio n = 50000

Promedio n = 100000

Promedio n = 200000

Promedio n = 400000

Promedio n = 600000

Promedio n = 800000

Promedio n = 1000000

Promedio n = 2000000

Promedio n = 3000000

Promedio n = 4000000

Promedio n = 5000000

Promedio n = 6000000

Promedio n = 7000000

Promedio n = 8000000

Promedio n = 9000000

Promedio n = 10000000

## Búsqueda Árbol Binario con Hilos

| Número a buscar | Tamaño de n | Tiempo real | Encontrado |
|-----------------|-------------|-------------|------------|
| 322486          | 100         |             | No         |
| 14700764        | 100         |             | No         |
| 3128036         | 100         |             | No         |
| 6337399         | 100         |             | No         |
| 61396           | 100         |             | No         |
| 10393545        | 100         |             | No         |
| 2147445644      | 100         |             | No         |
| 1295390003      | 100         |             | No         |
| 450057883       | 100         |             | No         |
| 187645041       | 100         |             | No         |
| 1980098116      | 100         |             | No         |
| 152503          | 100         |             | No         |
| 5000            | 100         |             | No         |
| 1493283650      | 100         |             | No         |
| 214826          | 100         |             | No         |
| 1843349527      | 100         |             | No         |
| 1360839354      | 100         |             | No         |
| 2109248666      | 100         |             | No         |
| 2147470852      | 100         |             | No         |
| 0               | 100         |             | No         |
| 322486          | 1000        |             | No         |
| 14700764        | 1000        |             | No         |
| 3128036         | 1000        |             | No         |
| 6337399         | 1000        |             | No         |
| 61396           | 1000        |             | No         |
| 10393545        | 1000        |             | No         |
| 2147445644      | 1000        |             | No         |

| Número a buscar | Tamaño de n | Tiempo real | Encontrado |
|-----------------|-------------|-------------|------------|
| 1295390003      | 1000        |             | No         |
| 450057883       | 1000        |             | No         |
| 187645041       | 1000        |             | No         |
| 1980098116      | 1000        |             | No         |
| 152503          | 1000        |             | No         |
| 5000            | 1000        |             | No         |
| 1493283650      | 1000        |             | No         |
| 214826          | 1000        |             | No         |
| 1843349527      | 1000        |             | No         |
| 1360839354      | 1000        |             | No         |
| 2109248666      | 1000        |             | No         |
| 2147470852      | 1000        |             | No         |
| 0               | 1000        |             | No         |
| 322486          | 5000        |             | No         |
| 14700764        | 5000        |             | No         |
| 3128036         | 5000        |             | No         |
| 6337399         | 5000        |             | No         |
| 61396           | 5000        |             | No         |
| 10393545        | 5000        |             | No         |
| 2147445644      | 5000        |             | No         |
| 1295390003      | 5000        |             | No         |
| 450057883       | 5000        |             | No         |
| 187645041       | 5000        |             | No         |
| 1980098116      | 5000        |             | No         |
| 152503          | 5000        |             | No         |
| 5000            | 5000        |             | No         |
| 1493283650      | 5000        |             | No         |
| 214826          | 5000        |             | No         |

| Número a buscar | Tamaño de n | Tiempo real | Encontrado |
|-----------------|-------------|-------------|------------|
| 1843349527      | 5000        |             | No         |
| 1360839354      | 5000        |             | No         |
| 2109248666      | 5000        |             | No         |
| 2147470852      | 5000        |             | No         |
| 0               | 5000        |             | No         |
| 322486          | 10000       |             | No         |
| 14700764        | 10000       |             | No         |
| 3128036         | 10000       |             | No         |
| 6337399         | 10000       |             | No         |
| 61396           | 10000       |             | No         |
| 10393545        | 10000       |             | No         |
| 2147445644      | 10000       |             | No         |
| 1295390003      | 10000       |             | No         |
| 450057883       | 10000       |             | No         |
| 187645041       | 10000       |             | No         |
| 1980098116      | 10000       |             | No         |
| 152503          | 10000       |             | No         |
| 5000            | 10000       |             | No         |
| 1493283650      | 10000       |             | No         |
| 214826          | 10000       |             | No         |
| 1843349527      | 10000       |             | No         |
| 1360839354      | 10000       |             | No         |
| 2109248666      | 10000       |             | No         |
| 2147470852      | 10000       |             | No         |
| 0               | 10000       |             | No         |
| 322486          | 50000       |             | No         |
| 14700764        | 50000       |             | No         |
| 3128036         | 50000       |             | No         |



| Número a buscar | Tamaño de n | Tiempo real | Encontrado |
|-----------------|-------------|-------------|------------|
| 6337399         | 50000       |             | No         |
| 61396           | 50000       |             | No         |
| 10393545        | 50000       |             | No         |
| 2147445644      | 50000       |             | No         |
| 1295390003      | 50000       |             | No         |
| 450057883       | 50000       |             | No         |
| 187645041       | 50000       |             | No         |
| 1980098116      | 50000       |             | No         |
| 152503          | 50000       |             | No         |
| 5000            | 50000       |             | No         |
| 1493283650      | 50000       |             | No         |
| 214826          | 50000       |             | No         |
| 1843349527      | 50000       |             | No         |
| 1360839354      | 50000       |             | No         |
| 2109248666      | 50000       |             | No         |
| 2147470852      | 50000       |             | No         |
| 0               | 50000       |             | No         |
| 322486          | 100000      |             | No         |
| 14700764        | 100000      |             | No         |
| 3128036         | 100000      |             | No         |
| 6337399         | 100000      |             | No         |
| 61396           | 100000      |             | No         |
| 10393545        | 100000      |             | No         |
| 2147445644      | 100000      |             | No         |
| 1295390003      | 100000      |             | No         |
| 450057883       | 100000      |             | No         |
| 187645041       | 100000      |             | No         |
| 1980098116      | 100000      |             | No         |

| Número a buscar | Tamaño de n | Tiempo real | Encontrado |
|-----------------|-------------|-------------|------------|
| 152503          | 100000      |             | No         |
| 5000            | 100000      |             | No         |
| 1493283650      | 100000      |             | No         |
| 214826          | 100000      |             | No         |
| 1843349527      | 100000      |             | No         |
| 1360839354      | 100000      |             | No         |
| 2109248666      | 100000      |             | No         |
| 2147470852      | 100000      |             | No         |
| 0               | 100000      |             | No         |
| 322486          | 200000      |             | No         |
| 14700764        | 200000      |             | No         |
| 3128036         | 200000      |             | No         |
| 6337399         | 200000      |             | No         |
| 61396           | 200000      |             | No         |
| 10393545        | 200000      |             | No         |
| 2147445644      | 200000      |             | No         |
| 1295390003      | 200000      |             | No         |
| 450057883       | 200000      |             | No         |
| 187645041       | 200000      |             | No         |
| 1980098116      | 200000      |             | No         |
| 152503          | 200000      |             | No         |
| 5000            | 200000      |             | No         |
| 1493283650      | 200000      |             | No         |
| 214826          | 200000      |             | No         |
| 1843349527      | 200000      |             | No         |
| 1360839354      | 200000      |             | No         |
| 2109248666      | 200000      |             | No         |
| 2147470852      | 200000      |             | No         |

| Número a buscar | Tamaño de n | Tiempo real | Encontrado |
|-----------------|-------------|-------------|------------|
| 0               | 200000      |             | No         |
| 322486          | 400000      |             | No         |
| 14700764        | 400000      |             | No         |
| 3128036         | 400000      |             | No         |
| 6337399         | 400000      |             | No         |
| 61396           | 400000      |             | No         |
| 10393545        | 400000      |             | No         |
| 2147445644      | 400000      |             | No         |
| 1295390003      | 400000      |             | No         |
| 450057883       | 400000      |             | No         |
| 187645041       | 400000      |             | No         |
| 1980098116      | 400000      |             | No         |
| 152503          | 400000      |             | No         |
| 5000            | 400000      |             | No         |
| 1493283650      | 400000      |             | No         |
| 214826          | 400000      |             | No         |
| 1843349527      | 400000      |             | No         |
| 1360839354      | 400000      |             | No         |
| 2109248666      | 400000      |             | No         |
| 2147470852      | 400000      |             | No         |
| 0               | 400000      |             | No         |
| 322486          | 600000      |             | No         |
| 14700764        | 600000      |             | No         |
| 3128036         | 600000      |             | No         |
| 6337399         | 600000      |             | No         |
| 61396           | 600000      |             | No         |
| 10393545        | 600000      |             | No         |
| 2147445644      | 600000      |             | No         |

| Número a buscar | Tamaño de n | Tiempo real | Encontrado |
|-----------------|-------------|-------------|------------|
| 1295390003      | 600000      |             | No         |
| 450057883       | 600000      |             | No         |
| 187645041       | 600000      |             | No         |
| 1980098116      | 600000      |             | No         |
| 152503          | 600000      |             | No         |
| 5000            | 600000      |             | No         |
| 1493283650      | 600000      |             | Si         |
| 214826          | 600000      |             | No         |
| 1843349527      | 600000      |             | No         |
| 1360839354      | 600000      |             | No         |
| 2109248666      | 600000      |             | No         |
| 2147470852      | 600000      |             | No         |
| 0               | 600000      |             | No         |
| 322486          | 800000      |             | No         |
| 14700764        | 800000      |             | No         |
| 3128036         | 800000      |             | No         |
| 6337399         | 800000      |             | No         |
| 61396           | 800000      |             | No         |
| 10393545        | 800000      |             | No         |
| 2147445644      | 800000      |             | No         |
| 1295390003      | 800000      |             | No         |
| 450057883       | 800000      |             | No         |
| 187645041       | 800000      |             | No         |
| 1980098116      | 800000      |             | No         |
| 152503          | 800000      |             | No         |
| 5000            | 800000      |             | No         |
| 1493283650      | 800000      |             | Si         |
| 214826          | 800000      |             | No         |

| Número a buscar | Tamaño de n | Tiempo real | Encontrado |
|-----------------|-------------|-------------|------------|
| 1843349527      | 800000      |             | No         |
| 1360839354      | 800000      |             | No         |
| 2109248666      | 800000      |             | No         |
| 2147470852      | 800000      |             | No         |
| 0               | 800000      |             | No         |
| 322486          | 1000000     |             | No         |
| 14700764        | 1000000     |             | No         |
| 3128036         | 1000000     |             | No         |
| 6337399         | 1000000     |             | No         |
| 61396           | 1000000     |             | No         |
| 10393545        | 1000000     |             | No         |
| 2147445644      | 1000000     |             | No         |
| 1295390003      | 1000000     |             | No         |
| 450057883       | 1000000     |             | No         |
| 187645041       | 1000000     |             | No         |
| 1980098116      | 1000000     |             | No         |
| 152503          | 1000000     |             | No         |
| 5000            | 1000000     |             | No         |
| 1493283650      | 1000000     |             | Si         |
| 214826          | 1000000     |             | No         |
| 1843349527      | 1000000     |             | No         |
| 1360839354      | 1000000     |             | No         |
| 2109248666      | 1000000     |             | No         |
| 2147470852      | 1000000     |             | No         |
| 0               | 1000000     |             | No         |
| 322486          | 2000000     |             | No         |
| 14700764        | 2000000     |             | No         |
| 3128036         | 2000000     |             | Si         |

| Número a buscar | Tamaño de n | Tiempo real | Encontrado |
|-----------------|-------------|-------------|------------|
| 6337399         | 2000000     |             | No         |
| 61396           | 2000000     |             | No         |
| 10393545        | 2000000     |             | No         |
| 2147445644      | 2000000     |             | No         |
| 1295390003      | 2000000     |             | No         |
| 450057883       | 2000000     |             | No         |
| 187645041       | 2000000     |             | No         |
| 1980098116      | 2000000     |             | No         |
| 152503          | 2000000     |             | No         |
| 5000            | 2000000     |             | No         |
| 1493283650      | 2000000     |             | Si         |
| 214826          | 2000000     |             | No         |
| 1843349527      | 2000000     |             | No         |
| 1360839354      | 2000000     |             | No         |
| 2109248666      | 2000000     |             | No         |
| 2147470852      | 2000000     |             | No         |
| 0               | 2000000     |             | No         |
| 322486          | 3000000     |             | No         |
| 14700764        | 3000000     |             | No         |
| 3128036         | 3000000     |             | Si         |
| 6337399         | 3000000     |             | No         |
| 61396           | 3000000     |             | No         |
| 10393545        | 3000000     |             | No         |
| 2147445644      | 3000000     |             | No         |
| 1295390003      | 3000000     |             | No         |
| 450057883       | 3000000     |             | No         |
| 187645041       | 3000000     |             | No         |
| 1980098116      | 3000000     |             | No         |

| Número a buscar | Tamaño de n | Tiempo real | Encontrado |
|-----------------|-------------|-------------|------------|
| 152503          | 3000000     |             | No         |
| 5000            | 3000000     |             | No         |
| 1493283650      | 3000000     |             | Si         |
| 214826          | 3000000     |             | No         |
| 1843349527      | 3000000     |             | Si         |
| 1360839354      | 3000000     |             | No         |
| 2109248666      | 3000000     |             | No         |
| 2147470852      | 3000000     |             | No         |
| 0               | 3000000     |             | No         |
| 322486          | 4000000     |             | No         |
| 14700764        | 4000000     |             | No         |
| 3128036         | 4000000     |             | Si         |
| 6337399         | 4000000     |             | No         |
| 61396           | 4000000     |             | No         |
| 10393545        | 4000000     |             | No         |
| 2147445644      | 4000000     |             | No         |
| 1295390003      | 4000000     |             | No         |
| 450057883       | 4000000     |             | No         |
| 187645041       | 4000000     |             | No         |
| 1980098116      | 4000000     |             | No         |
| 152503          | 4000000     |             | No         |
| 5000            | 4000000     |             | No         |
| 1493283650      | 4000000     |             | Si         |
| 214826          | 4000000     |             | No         |
| 1843349527      | 4000000     |             | Si         |
| 1360839354      | 4000000     |             | No         |
| 2109248666      | 4000000     |             | No         |
| 2147470852      | 4000000     |             | No         |

| Número a buscar | Tamaño de n | Tiempo real | Encontrado |
|-----------------|-------------|-------------|------------|
| 0               | 4000000     |             | No         |
| 322486          | 5000000     |             | No         |
| 14700764        | 5000000     |             | No         |
| 3128036         | 5000000     |             | Si         |
| 6337399         | 5000000     |             | No         |
| 61396           | 5000000     |             | No         |
| 10393545        | 5000000     |             | No         |
| 2147445644      | 5000000     |             | No         |
| 1295390003      | 5000000     |             | No         |
| 450057883       | 5000000     |             | No         |
| 187645041       | 5000000     |             | No         |
| 1980098116      | 5000000     |             | No         |
| 152503          | 5000000     |             | No         |
| 5000            | 5000000     |             | No         |
| 1493283650      | 5000000     |             | Si         |
| 214826          | 5000000     |             | No         |
| 1843349527      | 5000000     |             | Si         |
| 1360839354      | 5000000     |             | No         |
| 2109248666      | 5000000     |             | No         |
| 2147470852      | 5000000     |             | No         |
| 0               | 5000000     |             | No         |
| 322486          | 6000000     |             | No         |
| 14700764        | 6000000     |             | No         |
| 3128036         | 6000000     |             | Si         |
| 6337399         | 6000000     |             | No         |
| 61396           | 6000000     |             | No         |
| 10393545        | 6000000     |             | No         |
| 2147445644      | 6000000     |             | No         |



| Número a buscar | Tamaño de n | Tiempo real | Encontrado |
|-----------------|-------------|-------------|------------|
| 1295390003      | 6000000     |             | No         |
| 450057883       | 6000000     |             | No         |
| 187645041       | 6000000     |             | No         |
| 1980098116      | 6000000     |             | No         |
| 152503          | 6000000     |             | No         |
| 5000            | 6000000     |             | No         |
| 1493283650      | 6000000     |             | Si         |
| 214826          | 6000000     |             | No         |
| 1843349527      | 6000000     |             | Si         |
| 1360839354      | 6000000     |             | No         |
| 2109248666      | 6000000     |             | No         |
| 2147470852      | 6000000     |             | No         |
| 0               | 6000000     |             | No         |
| 322486          | 7000000     |             | No         |
| 14700764        | 7000000     |             | No         |
| 3128036         | 7000000     |             | Si         |
| 6337399         | 7000000     |             | Si         |
| 61396           | 7000000     |             | No         |
| 10393545        | 7000000     |             | Si         |
| 2147445644      | 7000000     |             | No         |
| 1295390003      | 7000000     |             | No         |
| 450057883       | 7000000     |             | No         |
| 187645041       | 7000000     |             | No         |
| 1980098116      | 7000000     |             | No         |
| 152503          | 7000000     |             | No         |
| 5000            | 7000000     |             | No         |
| 1493283650      | 7000000     |             | Si         |
| 214826          | 7000000     |             | No         |

| Número a buscar | Tamaño de n | Tiempo real | Encontrado |
|-----------------|-------------|-------------|------------|
| 1843349527      | 7000000     |             | Si         |
| 1360839354      | 7000000     |             | No         |
| 2109248666      | 7000000     |             | Si         |
| 2147470852      | 7000000     |             | No         |
| 0               | 7000000     |             | No         |
| 322486          | 8000000     |             | No         |
| 14700764        | 8000000     |             | No         |
| 3128036         | 8000000     |             | Si         |
| 6337399         | 8000000     |             | Si         |
| 61396           | 8000000     |             | No         |
| 10393545        | 8000000     |             | Si         |
| 2147445644      | 8000000     |             | No         |
| 1295390003      | 8000000     |             | No         |
| 450057883       | 8000000     |             | No         |
| 187645041       | 8000000     |             | No         |
| 1980098116      | 8000000     |             | No         |
| 152503          | 8000000     |             | No         |
| 5000            | 8000000     |             | No         |
| 1493283650      | 8000000     |             | Si         |
| 214826          | 8000000     |             | No         |
| 1843349527      | 8000000     |             | Si         |
| 1360839354      | 8000000     |             | No         |
| 2109248666      | 8000000     |             | Si         |
| 2147470852      | 8000000     |             | Si         |
| 0               | 8000000     |             | No         |
| 322486          | 9000000     |             | Si         |
| 14700764        | 9000000     |             | No         |
| 3128036         | 9000000     |             | Si         |

| Número a buscar | Tamaño de n | Tiempo real | Encontrado |
|-----------------|-------------|-------------|------------|
| 6337399         | 9000000     |             | Si         |
| 61396           | 9000000     |             | No         |
| 10393545        | 9000000     |             | Si         |
| 2147445644      | 9000000     |             | No         |
| 1295390003      | 9000000     |             | Si         |
| 450057883       | 9000000     |             | No         |
| 187645041       | 9000000     |             | No         |
| 1980098116      | 9000000     |             | No         |
| 152503          | 9000000     |             | No         |
| 5000            | 9000000     |             | No         |
| 1493283650      | 9000000     |             | Si         |
| 214826          | 9000000     |             | No         |
| 1843349527      | 9000000     |             | Si         |
| 1360839354      | 9000000     |             | No         |
| 2109248666      | 9000000     |             | Si         |
| 2147470852      | 9000000     |             | Si         |
| 0               | 9000000     |             | No         |
| 322486          | 10000000    |             | Si         |
| 14700764        | 10000000    |             | No         |
| 3128036         | 10000000    |             | Si         |
| 6337399         | 10000000    |             | Si         |
| 61396           | 10000000    |             | No         |
| 10393545        | 10000000    |             | Si         |
| 2147445644      | 10000000    |             | No         |
| 1295390003      | 10000000    |             | Si         |
| 450057883       | 10000000    |             | No         |
| 187645041       | 10000000    |             | No         |
| 1980098116      | 10000000    |             | No         |

| Número a buscar | Tamaño de n | Tiempo real | Encontrado |
|-----------------|-------------|-------------|------------|
| 152503          | 10000000    |             | No         |
| 5000            | 10000000    |             | No         |
| 1493283650      | 10000000    |             | Si         |
| 214826          | 10000000    |             | No         |
| 1843349527      | 10000000    |             | Si         |
| 1360839354      | 10000000    |             | No         |
| 2109248666      | 10000000    |             | Si         |
| 2147470852      | 10000000    |             | Si         |
| 0               | 10000000    |             | No         |

Promedio n = 100

Promedio n = 1000

Promedio n = 5000

Promedio n = 10000

Promedio n = 50000

Promedio n = 100000

Promedio n = 200000

Promedio n = 400000

Promedio n = 600000

Promedio n = 800000

Promedio n = 1000000

Promedio n = 2000000

Promedio n = 3000000

Promedio n = 4000000

Promedio n = 5000000

Promedio n = 6000000

Promedio n = 7000000

Promedio n = 8000000

Promedio n = 9000000

Promedio n = 10000000