Part 3

1. Experiment C1:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **X** | Hash Method 1 | | Hash Method 2 | |
| Effectiveness (%) | Time (ms) | Effectiveness (%) | Time (ms) |
| 12500 | 99.70% | 4217.546 | 99.69% | 3699.763 |
| 25000 | 99.43% | 4203.306 | 99.41% | 4484.544 |
| 37500 | 99.17% | 5302.949 | 99.09% | 5664.047 |
| 50000 | 98.85% | 6330.350 | 98.81% | 6261.706 |
| 75000 | 98.20% | 7811.196 | 98.37% | 8115.489 |

1. Experiment C2:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **X** | Hash Method 1 | | Hash Method 2 | |
| Effectiveness (%) | Time (ms) | Effectiveness (%) | Time (ms) |
| 12500 | 99.70% | 3598.461 | 99.69% | 3956.416 |
| 25000 | 99.43% | 4178.219 | 99.41% | 4427.690 |
| 37500 | 99.17% | 5452.872 | 99.09% | 5530.924 |
| 50000 | 98.85% | 6019.564 | 98.81% | 6224.585 |
| 75000 | 98.20% | 7627.230 | 98.37% | 8073.968 |

1. Experiment C3:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **X** | Hash Method 1 | | Hash Method 2 | |
| Effectiveness (%) | Time (ms) | Effectiveness (%) | Time (ms) |
| 12500 | 99.70% | 7884.609 | 99.69% | 7602.415 |
| 25000 | 99.43% | 6953.326 | 99.41% | 6924.912 |
| 37500 | 99.17% | 6914.813 | 99.09% | 7740.874 |
| 50000 | 98.85% | 7904.096 | 98.81% | 7708.404 |
| 75000 | 98.20% | 7697.256 | 98.37% | 8605.057 |

1. Experiment D1:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **N (kB)** | Hash Method 1 | | Hash Method 2 | |
| Effectiveness (%) | Time (ms) | Effectiveness (%) | Time (ms) |
| 128 | 95.40% | 6482.918 | 95.21% | 6482.357 |
| 256 | 97.67% | 5699.613 | 97.63% | 6512.913 |
| 512 | 98.85% | 5869.672 | 98.81% | 6184.667 |
| 1024 | 99.39% | 6320.000 | 99.37% | 6314.265 |
| 2048 | 99.70% | 6376.002 | 99.71% | 6239.951 |
| 4096 | 99.86% | 6152.919 | 99.85% | 6672.367 |

1. Experiment D2:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **N (kB)** | Hash Method 1 | | Hash Method 2 | |
| Effectiveness (%) | Time (ms) | Effectiveness (%) | Time (ms) |
| 128 | 95.40% | 6593.090 | 95.21% | 6707.854 |
| 256 | 97.67% | 5640.286 | 97.63% | 6237.798 |
| 512 | 98.85% | 6499.758 | 98.81% | 6638.321 |
| 1024 | 99.39% | 6257.268 | 99.37% | 6073.526 |
| 2048 | 99.70% | 5964.972 | 99.71% | 6573.886 |
| 4096 | 99.86% | 6612.984 | 99.85% | 6182.455 |

1. Experiment D3:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **N (kB)** | Hash Method 1 | | Hash Method 2 | |
| Effectiveness (%) | Time (ms) | Effectiveness (%) | Time (ms) |
| 128 | 95.40% | 8249.151 | 95.21% | 8053.033 |
| 256 | 97.67% | 7573.266 | 97.63% | 8163.586 |
| 512 | 98.85% | 7249.650 | 98.81% | 7817.489 |
| 1024 | 99.39% | 7573.315 | 99.37% | 8276.949 |
| 2048 | 99.70% | 7315.877 | 99.71% | 8346.545 |
| 4096 | 99.86% | 8712.772 | 99.85% | 8477.323 |

1. Experiment E1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **JF** | Hash Method 1 | | Hash Method 2 | |
| Effectiveness (%) | Time (ms) | Effectiveness (%) | Time (ms) |
| 5 | 98.85% | 3669.873 | 98.81% | 3757.190 |
| 10 | 98.85% | 6601.442 | 98.81% | 6588.432 |
| 20 | 98.85% | 13444.463 | 98.81% | 13095.267 |
| 40 | 98.85% | 24272.769 | 98.81% | 23290.451 |
| 80 | 98.85% | 50260.357 | 98.81% | 48750.646 |

1. Experiment F1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **||R||** | Hash Method 1 | | Hash Method 2 | |
| Effectiveness (%) | Time (ms) | Effectiveness (%) | Time (ms) |
| 25,000 | 99.70% | 3582.832 | 99.69% | 3651.069 |
| 50,000 | 99.43% | 4290.718 | 99.41% | 4451.695 |
| 75,000 | 99.17% | 5587.530 | 99.09% | 5920.960 |
| 100,000 | 98.85% | 5928.545 | 98.81% | 5919.045 |
| 200,000 | 100.00% | 9374.361 | 100.00% | 9992.620 |