|  |  |  |  |
| --- | --- | --- | --- |
|  | **Average Time in Seconds** | | |
| **Input Size** | **Best Case** | **Worst Case** | **Average case** |
| 1000 | 0 | 0.001 | 0.0004 |
| 10000 | 0 | 0.0758 | 0.0388 |
| 50000 | 0 | 1.9086 | 0.9534 |
| 100000 | 0 | 7.462 | 3.7522 |
| 200000 | 0 | 29.8646 | 14.8964 |

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| --- | --- | --- | --- |
|  | **Average Time in Seconds** | | |
| **Input Size** | **Best Case** | **Worst Case** | **Average case** |
| 1000 | 0 | 0.001 | 0.0008 |
| 10000 | 0.0604 | 0.0628 | 0.0648 |
| 50000 | 1.4874 | 1.6034 | 1.5906 |
| 100000 | 5.9246 | 6.423 | 6.464 |
| 200000 | 23.5684 | 25.7476 | 25.6684 |

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| --- | --- | --- | --- |
|  | **Average Time in Seconds** | | |
| **Input Size** | **Best Case** | **Worst Case** | **Average case** |
| 1000 | 0.0002 | 0.0004 | 0.0002 |
| 10000 | 0.0028 | 0.003 | 0.0032 |
| 50000 | 0.0148 | 0.015 | 0.0148 |
| 100000 | 0.0302 | 0.034 | 0.0302 |
| 200000 | 0.059 | 0.0644 | 0.0644 |

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| --- | --- | --- | --- |
|  | **Average Time in Seconds** | | |
| **Input Size** | **Best Case** | **Worst Case** | **Average case** |
| 1000 | 0 | 0.0004 | 0 |
| 10000 | 0.0004 | 0.0378 | 0.00292 |
| 50000 | 0.0014 | 0.75374 | 0.0112 |
| 100000 | 0.003 | 3.7194 | 0.022 |
| 200000 | 0.0064 | 14.8342 | 0.047 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Average Time in Seconds** | | |
| **Input Size** | **Worst Case** | **Average Case** | **Best Case** |
| 1000 | 0.0114 | 0.0052 | 0.0006 |
| 10000 | 1.0982 | 0.5776 | 0.0714 |
| 50000 | 27.3288 | 15.163 | 1.6124 |
| 100000 | 108.4602 | 57.2464 | 6.3486 |
| 200000 | 431.026 | 256.356 | 25.899 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Average Time in Seconds** | | |
| **Input Size** | **Worst Case** | **Best Case** | **Average case** |
| 1000 | 0 | 0 | 0 |
| 10000 | 0.0022 | 0 | 0.0008 |
| 50000 | 0.0122 | 0.0004 | 0.0076 |
| 100000 | 0.0258 | 0 | 0.0152 |
| 200000 | 0.0608 | 0.0002 | 0.0306 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Average Time in Seconds** | | |
| **Input Size** | **Best Case** | **Worst Case** | **Average case** |
| 1000 | 0 | 0.0004 | 0.0002 |
| 10000 | 0.0012 | 0.0039 | 0.002 |
| 50000 | 0.021 | 0.0218 | 0.0218 |
| 100000 | 0.0462 | 0.0462 | 0.0462 |
| 200000 | 0.0938 | 0.0948 | 0.0982 |

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| --- | --- | --- | --- |
|  | **Average Time in Seconds** | | |
| **Input Size** | **Best Case** | **Worst Case** | **Average case** |
| 1000 | 0 | 0.0002 | 0 |
| 10000 | 0 | 0.003 | 0 |
| 50000 | 0 | 0.0332 | 0.001 |
| 100000 | 0.0008 | 0.0934 | 0.0016 |
| 200000 | 0.0014 | 0.2716 | 0.0028 |