|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Input Size** | **Prog1** | **Prog2** | **Prog3** | **Prog4** | **Prog5** |
| **100** | 0:00.19 | 0:00.23 | 0:01.07 |  | 0:01.68 |
| **1,000** | 0:00.33 | 0:00.31 | 0:01.19 |  | 0:01.73 |
| **10,000** | 0:02.05 | 0:07.64 | 0:01.14 |  | 0:01.89 |
| **100,000** | 0:09.16 |  | 0:01.21 |  | 0.01.85 |
| **1,000,000** | 1:17.81 |  | 0:01.45 |  | 0:01.67 |

Prog1 appears to have the asymptotic behavior of O(n).

Prog2 appears to have the asymptotic behavior of O(n^2)

Prog3 appears to have the asymptotic behavior of O(log(n))

Prog4 appears to have the asymptotic behavior of O(2^n)

Prog5 appears to have the asymptotic behavior of O(1)