+-----------------------------------------------------------------------------+

| ArrayStack |

+------------+--------------------------------+-------------------------------+

| N | Push | Pop |

+------------+--------------------------------+-------------------------------+

| 1 | 31908 | 3845 |

+------------+--------------------------------+-------------------------------+

| 10 | 3600 | 2754 |

+------------+--------------------------------+-------------------------------+

| 100 | 22330 | 15529 |

+------------+--------------------------------+-------------------------------+

| 1000 | 427833 | 266389 |

+------------+--------------------------------+-------------------------------+

| 10000 | 1463029 | 1140004 |

+------------+--------------------------------+-------------------------------+

| 100000 | 11006404 | 5365249 |

+------------+--------------------------------+-------------------------------+

| 1000000 | 69012080 | 1154951 |

+------------+--------------------------------+-------------------------------+

| 10000000 | 23738758 | 10577428 |

+------------+--------------------------------+-------------------------------+

+-----------------------------------------------------------------------------+

| LinkStack |

+------------+--------------------------------+-------------------------------+

| N | Push | Pop |

+------------+--------------------------------+-------------------------------+

| 1 | 475822 | 13075 |

+------------+--------------------------------+-------------------------------+

| 10 | 3221 | 4011 |

+------------+--------------------------------+-------------------------------+

| 100 | 32825 | 41070 |

+------------+--------------------------------+-------------------------------+

| 1000 | 309093 | 448840 |

+------------+--------------------------------+-------------------------------+

| 10000 | 277333 | 232481 |

+------------+--------------------------------+-------------------------------+

| 100000 | 1850521 | 438892 |

+------------+--------------------------------+-------------------------------+

| 1000000 | 15512319 | 4423880 |

+------------+--------------------------------+-------------------------------+

| 10000000 | 3699213596 | 47636940 |

+------------+--------------------------------+-------------------------------+

+-----------------------------------------------------------------------------+

| ArrayQueue |

+------------+--------------------------------+-------------------------------+

| N | Enqueue | Dequeue |

+------------+--------------------------------+-------------------------------+

| 1 | 41097 | 15727 |

+------------+--------------------------------+-------------------------------+

| 10 | 2155 | 2221 |

+------------+--------------------------------+-------------------------------+

| 100 | 14910 | 26210 |

+------------+--------------------------------+-------------------------------+

| 1000 | 119292 | 191374 |

+------------+--------------------------------+-------------------------------+

| 10000 | 218049 | 211432 |

+------------+--------------------------------+-------------------------------+

| 100000 | 1136130 | 826973 |

+------------+--------------------------------+-------------------------------+

| 1000000 | 9043308 | 7927018 |

+------------+--------------------------------+-------------------------------+

| 10000000 | 91833727 | 82702689 |

+------------+--------------------------------+-------------------------------+

+-----------------------------------------------------------------------------+

| LinkedQueue |

+------------+--------------------------------+-------------------------------+

| N | Enqueue | Dequeue |

+------------+--------------------------------+-------------------------------+

| 1 | 50168 | 7429 |

+------------+--------------------------------+-------------------------------+

| 10 | 8595 | 993 |

+------------+--------------------------------+-------------------------------+

| 100 | 30588 | 11056 |

+------------+--------------------------------+-------------------------------+

| 1000 | 326901 | 83288 |

+------------+--------------------------------+-------------------------------+

| 10000 | 547648 | 87950 |

+------------+--------------------------------+-------------------------------+

| 100000 | 1665471 | 462619 |

+------------+--------------------------------+-------------------------------+

| 1000000 | 8243608 | 4648521 |

+------------+--------------------------------+-------------------------------+

| 10000000 | 2570566510 | 46642004 |

+------------+--------------------------------+-------------------------------+

+-----------------------------------------------------------------------------+

| ArrayList |

+------------+--------------------------------+-------------------------------+

| N | Add | Remove |

+------------+--------------------------------+-------------------------------+

| 1 | 52038 | 8228 |

+------------+--------------------------------+-------------------------------+

| 10 | 3717 | 2677 |

+------------+--------------------------------+-------------------------------+

| 100 | 29048 | 31450 |

+------------+--------------------------------+-------------------------------+

| 1000 | 291466 | 236959 |

+------------+--------------------------------+-------------------------------+

| 10000 | 409196 | 405911 |

+------------+--------------------------------+-------------------------------+

| 100000 | 847668 | 398307 |

+------------+--------------------------------+-------------------------------+

| 1000000 | 5943577 | 3813028 |

+------------+--------------------------------+-------------------------------+

| 10000000 | 56899101 | 38164740 |

+------------+--------------------------------+-------------------------------+