| --- | --- | --- | --- |

| 100 | Strictly increasing | 5 | 7 |

| 100 | Strictly decreasing | 5 | 7 |

| 100 | Random | 5 | 7 |

| 1000 | Strictly increasing | 7 | 10 |

| 1000 | Strictly decreasing | 7 | 10 |

| 1000 | Random | 7 | 10 |

| 10000 | Strictly increasing | 9 | 14 |

| 10000 | Strictly decreasing | 9 | 14 |

| 10000 | Random | 9 | 14 |

| 100000 | Strictly increasing | 14 | 17 |

| 100000 | Strictly decreasing | 14 | 17 |

| 100000 | Random | 14 | 17 |

| 1000000 | Strictly increasing | 20 | 20 |

| 1000000 | Strictly decreasing | 20 | 20 |

| 1000000 | Random | 20 | 20 |