|  |  |  |
| --- | --- | --- |
| Number of Cities | Brute Force Runtime (s) | Genetic Algorithm Runtime (s) |
| 10 | 0.0497872 | 0.0000238 |
| 11 | 0.3036482 | 0.0000240 |
| 12 | 3.5690381 | 0.0000526 |
| 13 | 44.402254 | 0.0000277 |
| 14 | 615.63156 | 0.0000348 |

At 14 cities, the brute force algorithm takes close to 10 minutes to compute all combinations. The last number of cities to take less than 5 minutes to compute is 13 cities at 44.402254 seconds.