Solution Comparison

N= 100,000,000 P = 100,000

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Problem Size** | **Execution Time (ns)** | | **Solution Length** | |
| **DynaTSP** | **ClimbTSP** | **DynaTSP** | **ClimbTSP** |
| 22 | 4166443200 | 8461224700 | 272 | 585.8 |
| 23 | 9952280800 | 8611925000 | 461 | 950.8 |
| 24 | 24385658600 | 8997056760 | 299 | 648.6 |
| 25 | 57356340500 | 8915999640 | 306 | 742 |
| 26 | x | 9282058020 | x | 619 |

# Analysis

The hill climb method I believe is better because it doesn’t take as long or as much space and gets answers close to the correct minimum. If the answer I needed had to be exact I would rather choose the dynamic but for most applications, there is wiggle room so as to decided on resources needed vs accuracy most of the time sacrificing accuracy for less time and resources used is better.