Assignment 04

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# Programming Assignment 04

For θ1 and θ2 in range of **0 to 4**, the runtime of algorithm on different number of data points is tabled below.

|  |  |
| --- | --- |
| **Number of Data Points** | **Runtime (milliseconds)** |
| 10 | 1.51 |
| 100 | 9.19 |
| 1,000 | 64.99 |
| 10,000 | 511.42 |

# Programming Assignment 05

The properties of algorithm are tabled for **20** data points

|  |  |  |
| --- | --- | --- |
| **Range** | **Number of iterations** | **Time in seconds** |
| 1 to 10 | 100 | 0.0084 |
| 1 to 100 | 10,000 | 0.2655 |
| 1 to 1,000 | 1,000,000 | 18.8086 |
| 1 to 10,000 | 100,000,000 |  |