# Iteration 1

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| **Cycles** | 4 | | | | | | | |
| **Time** | 4 µs | | | | | | | |
| **R16** | 0x00 | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

# Iteration 2

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 196361 – 4 = 196357 | | | | | | | |
| **Time** | 196357 µs | | | | | | | |
| **R16** | 0x01 | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

# Iteration 3

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 392718 – 196361 = 196357 | | | | | | | |
| **Time** | 196357 µs | | | | | | | |
| **R16** | 0x02 | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

# Iteration 4

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 589075 – 392718 = 196357 | | | | | | | |
| **Time** | 196357µs | | | | | | | |
| **R16** | 0x03 | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |

# Iteration 5

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 785432 – 589075 = 196357 | | | | | | | |
| **Time** | 196357 µs | | | | | | | |
| **R16** | 0x04 | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |

# Iteration 6

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 981789 – 785432 = 196357 | | | | | | | |
| **Time** | 196357 µs | | | | | | | |
| **R16** | 0x05 | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |

# Iteration 7

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 1178146 – 981789 = 196357 | | | | | | | |
| **Time** | 196357 µs | | | | | | | |
| **R16** | 0x06 | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

# Iteration 8

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 1374503 – 1178146 = 196357 | | | | | | | |
| **Time** | 196357 µs | | | | | | | |
| **R16** | 0x07 | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |

# Iteration 8

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 1570860 – 1374503 = 196357 | | | | | | | |
| **Time** | 196357 µs | | | | | | | |
| **R16** | 0x08 | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |

# Iteration 10

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 1767217 – 1570860 =196357 | | | | | | | |
| **Time** | 196357 µs | | | | | | | |
| **R16** | 0x09 | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |

# Iteration 11

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 1963574 – 1767217 = 196357 | | | | | | | |
| **Time** | 196357 µs | | | | | | | |
| **R16** | 0x0A | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |

# Iteration 12

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 2159931 – 1963574 = 196357 | | | | | | | |
| **Time** | 196357 µs | | | | | | | |
| **R16** | 0x0B | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |

# Iteration 13

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 2356288 – 2159931 = 196357 | | | | | | | |
| **Time** | 196357 µs | | | | | | | |
| **R16** | 0x0C | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |

# Iteration 14

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 2552645 – 2356288 = 196357 | | | | | | | |
| **Time** | 196357 µs | | | | | | | |
| **R16** | 0x0D | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |

# Iteration 15

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 2749002 – 2552645 = 196357 | | | | | | | |
| **Time** | 196357 µs | | | | | | | |
| **R16** | 0x0E | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |

# Iteration 16

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 2945359 – 2749002 = 196357 | | | | | | | |
| **Time** | 196357 µs | | | | | | | |
| **R16** | 0x0F | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |

# Iteration 17

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 3141716 – 2945359 = 196357 | | | | | | | |
| **Time** | 196357 µs | | | | | | | |
| **R16** | 0x10 | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |

# Iteration 18

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 3338073 – 3141716 = 196357 | | | | | | | |
| **Time** | 196357 µs | | | | | | | |
| **R16** | 0x11 | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

# Iteration 19

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 3534430 – 3338073 = 196357 | | | | | | | |
| **Time** | 196357 µs | | | | | | | |
| **R16** | 0x12 | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |

# Iteration 20

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cycle Counter** | I | T | H | S | V | N | Z | C |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| **Cycles** | 3730787 – 3534430 = 196357 | | | | | | | |
| **Time** | 196357 µs | | | | | | | |
| **R16** | 0x13 | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |