# 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** | 11561 - 4 = 11557 | | | | | | | |
| **Time** | 11557 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** | 23118 - 11561 = 11557 | | | | | | | |
| **Time** | 11557 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** | 34675 - 23118 = 11557 | | | | | | | |
| **Time** | 11557µs | | | | | | | |
| **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** | 46232 - 34675 = 11557 | | | | | | | |
| **Time** | 11557 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** | 57789 - 46232 = 11557 | | | | | | | |
| **Time** | 11557 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** | 69346 - 57789 = 11557 | | | | | | | |
| **Time** | 11557 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** | 80903 - 69346 = 11557 | | | | | | | |
| **Time** | 11557 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** | 92460 - 80903 = 11557 | | | | | | | |
| **Time** | 11557 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** | 104017 - 92460 =11557 | | | | | | | |
| **Time** | 11557 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** | 115574 - 104017 = 11557 | | | | | | | |
| **Time** | 11557 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** | 127131 - 115574 = 11557 | | | | | | | |
| **Time** | 11557 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** | 138688 - 127131 = 11557 | | | | | | | |
| **Time** | 11557 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** | 150245 - 138688 = 11557 | | | | | | | |
| **Time** | 11557 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** | 161802 - 150245 = 11557 | | | | | | | |
| **Time** | 11557 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** | 173359 - 161802 = 11557 | | | | | | | |
| **Time** | 11557 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** | 184916 - 173359 = 11557 | | | | | | | |
| **Time** | 11557 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** | 196473 - 184916 = 11557 | | | | | | | |
| **Time** | 11557 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** | 208030 - 196473 = 11557 | | | | | | | |
| **Time** | 11557 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** | 219587 - 208030 = 11557 | | | | | | | |
| **Time** | 11557 µs | | | | | | | |
| **R16** | 0x13 | | | | | | | |
| **PORTA** | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |