

Program: ['MUL J A', 'DIV I', 'MUL E D', 'ADD C', 'LOADI 86', 'MOV A H', 'AND D E', 'POP H', 'CLR', 'HLT']

State at step 0:

PC: 0

ACC: 146

IR: HLT

Registers: {'A': 19, 'B': 55, 'C': 245, 'D': 35, 'E': 174, 'F': 185, 'G': 9, 'H': 20, 'I': 140, 'J': 2}

State at step 1:

PC: 1

ACC: 146

IR: MUL J A

Registers: {'A': 19, 'B': 55, 'C': 245, 'D': 35, 'E': 174, 'F': 185, 'G': 9, 'H': 20, 'I': 140, 'J': 2}

State at step 2:

PC: 2

ACC: 146

IR: DIV I

Registers: {'A': 19, 'B': 55, 'C': 245, 'D': 35, 'E': 174, 'F': 185, 'G': 9, 'H': 20, 'I': 140, 'J': 38}

State at step 3:

PC: 3

ACC: 1

IR: MUL E D

Registers: {'A': 19, 'B': 55, 'C': 245, 'D': 35, 'E': 174, 'F': 185, 'G': 9, 'H': 20, 'I': 140, 'J': 38}

State at step 4:

PC: 4

ACC: 1

IR: ADD C

Registers: {'A': 19, 'B': 55, 'C': 245, 'D': 35, 'E': 255, 'F': 185, 'G': 9, 'H': 20, 'I': 140, 'J': 38}

State at step 5:

PC: 5

ACC: 246

IR: LOADI 86

Registers: {'A': 19, 'B': 55, 'C': 245, 'D': 35, 'E': 255, 'F': 185, 'G': 9, 'H': 20, 'T': 140, 'J': 38}

State at step 6:

PC: 6

ACC: 86

IR: MOV A H

Registers: {'A': 19, 'B': 55, 'C': 245, 'D': 35, 'E': 255, 'F': 185, 'G': 9, 'H': 20, 'T': 140, 'J': 38}

State at step 7:

PC: 7

ACC: 86

IR: AND D E

Registers: {'A': 20, 'B': 55, 'C': 245, 'D': 35, 'E': 255, 'F': 185, 'G': 9, 'H': 20, 'T': 140, 'J': 38}

State at step 8:

PC: 8

ACC: 86

IR: POP H

Registers: {'A': 20, 'B': 55, 'C': 245, 'D': 35, 'E': 255, 'F': 185, 'G': 9, 'H': 20, 'T': 140, 'J': 38}

State at step 9:

PC: 9

ACC: 86

IR: CLR

Registers: {'A': 20, 'B': 55, 'C': 245, 'D': 35, 'E': 255, 'F': 185, 'G': 9, 'H': 86, 'T': 140, 'J': 38}

State at step 10:

PC: 10

ACC: 0

IR: HLT

Registers: {'A': 20, 'B': 55, 'C': 245, 'D': 35, 'E': 255, 'F': 185, 'G': 9, 'H': 86, 'T': 140, 'J': 38}