



```

a = 2
b = a + 3
c = a + b

for index in 1..10000:
    a = 2 + index

```

```

a = a + 3

```

```

assembly instr
machine instr

```

```

LD    $1, 0($4)    01001111000000111...110
LDI   $2, 3        11100011          ...111
ADD   $3, $1, $2
ST    $3, 0($4)

```

```

a= 3*a      LD    $1, 0($4)
            MULI  $1, $1, 3
a+a+a      ST    $1, 0($4)

```