Anexo2

==> block1.i <==
```
L1:     a = 0
L3:     b = 0
L4:     b = 1
L6:     a = 2
L7:     b = 3
L8:     a = a + 1
L9:     b = b + 1
L5:     a = a + 1
L10:    b = b + 1
L2:
```

==> exemplo1.i <==
```
L1:     r = a
L3:     dd = d
L4:     iffalse dd <= r goto L5
L6:     dd = 2 * dd
goto L4
L5:     iffalse dd != r goto L2
L7:     dd = dd / 2
L8:     iffalse dd <= r goto L5
L9:     r = r - dd
goto L5
L2:
```

==> exemplo2.i <==
```
L1:     prod = 0
L3:     i = 1
L4:     t1 = i * 8
t2 = a [ t1 ]
t3 = i * 8
t4 = b [ t3 ]
t5 = t2 * t4
prod = prod + t5
L6:     i = i + 1
L5:     if i <= 20 goto L4
L2:
```

==> exemplo3.i <==
```
L1:     i = 0
L3:     iffalse i < 10 goto L4
L5:     j = 0
L6:     iffalse j < 10 goto L7
L8:     t1 = i * 80
t2 = j * 8
t3 = t1 + t2
a [ t3 ] = 0
L9:     j = j + 1
goto L6
L7:     i = i + 1
goto L3
L4:     i = 0
L10:    iffalse i < 10 goto L2
L11:    t4 = i * 80
t5 = i * 8
t6 = t4 + t5
a [ t6 ] = 1
L12:    i = i + 1
goto L10
L2:
```

==> exemplo4.i <==
```
L1:L3:  if peek == BLANK goto L7
iffalse peek == TAB goto L6
L7:L5:  goto L4
L6:     iffalse peek == NEWLINE goto L9
L8:     line = line + 1
goto L4
L9:     goto L2
L4:     peek = readch
goto L1
L2:
```

==> exemplo.i <==
```
L1:L3:  i = i + 1
L5:     t1 = i * 8
t2 = a [ t1 ]
if t2 < v goto L3
L4:     j = j - 1
L7:     t3 = j * 8
t4 = a [ t3 ]
if t4 > v goto L4
L6:     iffalse i >= j goto L8
L9:     goto L2
L8:     t5 = i * 8
x = a [ t5 ]
L10:    t6 = i * 8
t7 = j * 8
t8 = a [ t7 ]
a [ t6 ] = t8
L11:    t9 = j * 8
a [ t9 ] = x
goto L1
L2:
```

==> expr1.i <==
```
L1:     i = 0
L3:     i = 365
L4:     x = 0.0
L5:     x = 3.1415896
L6:     b = true
L7:     b = false
L8:     i = x
L9:     x = i
L2:
```

==> expr2.i <==
```
L1:     a = b + c
L3:     a = b - c
L4:     a = b * c
L5:     a = b / c
L6:     a = minus b
L7:     t1 = a - b
d = t1 - c
L8:     t2 = a * b
d = t2 * c
L9:     t3 = b * c
d = a + t3
L10:    t4 = a * b
d = t4 + c
L11:    t5 = a - b
d = t5 - c
L12:    t6 = b - c
```

```
d = a - t6
L13:     t7 = a + b
d = t7 * c
L14:     t8 = b + c
d = a * t8
L15:     t9 = b * b
t10 = 4.0 * a
t11 = t10 * c
term = t9 - t11
L2:

==> expr3.i <==
L1:      if x < y goto L4
t1 = true
goto L5
L4:      t1 = false
L5:      r = t1
L3:      iffalse x == y goto L7
t2 = true
goto L8
L7:      t2 = false
L8:      r = t2
L6:      if x > y goto L11
L10:     r = true
goto L9
L11:     r = false
L9:      iffalse x != y goto L13
L12:     r = true
goto L2
L13:     r = false
L2:

==> expr4.i <==
L1:      t1 = i * 12
t2 = j * 4
t3 = t1 + t2
t4 = a [ t3 ]
x = c + t4
L3:      t5 = i * 12
t6 = j * 4
t7 = t5 + t6
a [ t7 ] = 0
L4:      t8 = i * 100
t9 = j * 10
t10 = t8 + t9
t11 = k * 1
t12 = t10 + t11
b [ t12 ] = true
L5:      t13 = i * 100
t14 = j * 10
t15 = t13 + t14
t16 = k * 1
t17 = t15 + t16
d = b [ t17 ]
L2:

==> identity1.i <==
L1:      i = 0
L3:      iffalse i < 10 goto L4
L5:      j = 0
L6:      iffalse j < 10 goto L7
L8:      t1 = i * 80
t2 = j * 8
```

```
t3 = t1 + t2
a [ t3 ] = 0.0
L9:      j = j + 1
goto L6
L7:      i = i + 1
goto L3
L4:      i = 0
L10:     iffalse i < 10 goto L2
L11:     t4 = i * 80
t5 = i * 8
t6 = t4 + t5
a [ t6 ] = 1.0
L12:     i = i + 1
goto L10
L2:

==> identity2.i <==
L1:      i = 0
L3:L5:   j = 0
L6:L8:   t1 = i * 80
t2 = j * 8
t3 = t1 + t2
a [ t3 ] = 0.0
L9:      iffalse j >= 10 goto L6
L10:     goto L7
goto L6
L7:      iffalse i >= 10 goto L3
L11:     goto L4
goto L3
L4:      i = 0
L12:L13:          t4 = i * 80
t5 = i * 8
t6 = t4 + t5
a [ t6 ] = 1.0
L14:     iffalse i >= 10 goto L12
L15:     goto L2
goto L12
L2:

==> jump1.i <==
L1:L4:   a = 0
L3:      goto L5
L6:      x = 0
L5:      iffalse a < b goto L7
L8:      a = b
L7:      iffalse x <= y goto L9
L10:     x = y
L9:      iffalse a == b goto L11
L12:     a = b
L11:     iffalse x != y goto L13
L14:     x = y
L13:     iffalse a >= b goto L15
L16:     b = a
L15:     iffalse x > y goto L17
L18:     y = x
L17:     iffalse a == b goto L19
L20:L19:          if x < 100 goto L23
iffalse x > 200 goto L21
L23:L22:          x = 0
L21:     iffalse a < 100 goto L24
iffalse a > 200 goto L24
L25:     b = 0
L24:     if x < 100 goto L28
```

```
iffalse x > 200 goto L26
iffalse x != y goto L26
L28:L27:          x = 0
L26:      if a < 100 goto L31
iffalse a > 200 goto L32
if a != 150 goto L31
L32:      iffalse a != 0 goto L29
L31:L30:          a = 0
L29:      iffalse x > 200 goto L36
if x != b goto L35
L36:      iffalse x < 100 goto L33
L35:L34:          x = 0
L33:      if a < 100 goto L38
iffalse a > 200 goto L2
iffalse a != b goto L2
L38:L37:          a = 0
L2:

==> jump2.i <==
L1:       r = true
L3:       r = false
L4:       iffalse a < b goto L6
t1 = true
goto L7
L6:       t1 = false
L7:       r = t1
L5:       iffalse x <= y goto L9
t2 = true
goto L10
L9:       t2 = false
L10:      r = t2
L8:       iffalse a == b goto L12
t3 = true
goto L13
L12:      t3 = false
L13:      r = t3
L11:      iffalse x != y goto L15
t4 = true
goto L16
L15:      t4 = false
L16:      r = t4
L14:      iffalse a >= b goto L18
t5 = true
goto L19
L18:      t5 = false
L19:      r = t5
L17:      iffalse x > y goto L21
t6 = true
goto L22
L21:      t6 = false
L22:      r = t6
L20:      if x < 100 goto L26
iffalse x > 200 goto L24
L26:      t7 = true
goto L25
L24:      t7 = false
L25:      r = t7
L23:      iffalse a < 100 goto L28
iffalse a > 200 goto L28
t8 = true
goto L29
L28:      t8 = false
L29:      r = t8
```

```
L27:      if x < 100 goto L33
iffalse x > 200 goto L31
iffalse x != y goto L31
L33:      t9 = true
goto L32
L31:      t9 = false
L32:      r = t9
L30:      if a < 100 goto L37
iffalse a > 200 goto L38
if a != 150 goto L37
L38:      iffalse a != 0 goto L35
L37:      t10 = true
goto L36
L35:      t10 = false
L36:      r = t10
L34:      iffalse x > 200 goto L43
if x != b goto L42
L43:      iffalse x < 100 goto L40
L42:      t11 = true
goto L41
L40:      t11 = false
L41:      r = t11
L39:      if a < 100 goto L46
iffalse a > 200 goto L44
iffalse a != b goto L44
L46:      t12 = true
goto L45
L44:      t12 = false
L45:      r = t12
L2:

==> jump3.i <==
L1:       r = b
L3:       t1 = i * 1
r = a [ t1 ]
L4:       t2 = i * 1
a [ t2 ] = b
L5:       t3 = i * 1
a [ t3 ] = true
L6:       t4 = i * 1
a [ t4 ] = false
L7:       iffalse b goto L8
L9:       x = y
L8:       t5 = i * 1
t6 = a [ t5 ]
iffalse t6 goto L2
L10:      x = y
L2:
```