```
loopstart(i1, y1)
i2 = int_mul(i1, i1)        # i*i
y2 = int_add(y1, i2)        # y += i*i
b1 = int_gt(y2, 100000)
guard_false(b1)
i3 = int_add(i1, 1)         # i = i+1
jump(i3, y2)
```