```
Entry
X
   \{ v0_1 := \phi [v0, Entry] [v0_2, Z] \}
    v1 1
               := \phi [v1, Entry] [v1_2, Z]
                := \phi [0, Entry] [i_1, Z]
    phi_mul := \phi [0, Entry] [next_mul, Z] 
    exitcond := (i == 32)
          := i + 1
    i 1
    next mul := phi mul + 0x9e3779b9
Y
                := v1 1 << 4
     tmp
    tmp1
                := tmp + k0 read
               := v1 1 >> 5
    tmp2
    tmp3
               := tmp2 + k1 read
     tmp4
                := v1 1 + next mul
Z
    tmp5
               := tmp3 xor tmp4
     tmp6
               := tmp5 xor tmp1
     v0 2
               := tmp6 + v0 1
               = v0 2 << 4
    tmp7
    tmp8
               := tmp7 + k2 read
             = v0 2 >> 5
    tmp9
    tmp10
               := tmp9 + k3 read
                := v0 2 + next mul
    tmp11
    tmp12 := tmp11 xor tmp8
    tmp13
               := tmp12 + tmp10
     v1 2 := tmp13 + v1 1
     Go to X
                                                          S_{1oop}
                := \phi [v0, Entry] [v0 2, Z]
   { v0 1
                := \phi [v1, Entry] [v1_2, Z]
                := \phi [0, Entry] [i_1, Z]
    phi mul := \phi [0, Entry] [next_mul, Z] }
    exitcond := (i == 32)
                                                          S_{\text{preExit}}
                := i + 1
                            Exit
```

Execute S_{loop} k times followed by S_{preExit}