```
Entry
X
  { v0_1
               := \phi [v0, Entry] [v0_2, Z]
                := \phi [v1, Entry] [v1_2, Z]
    v1_1
                := \phi [0, Entry] [i 1, Z]
    phi_mul := \phi [0, Entry] [next_mul, Z] }
    exitcond := ( i == 32)
                := i + 1
    i 1
    if (exitcond) then goto Exit else goto Next step
                := phi_mul + 0x9e3779b9
    next mul
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
     tmp11
                := v0 2 + next mul
     tmp12 := tmp11 xor tmp8
     tmp13
               := tmp12 + tmp10
     v1 2 := tmp13 + v1 1
     Go to X
                := \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)
                := i + 1
                                                         S_{preExit}
                            Exit
```

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