Pigeons = 9 = n

holes = 8 = n−1

bits = [i, j, m]
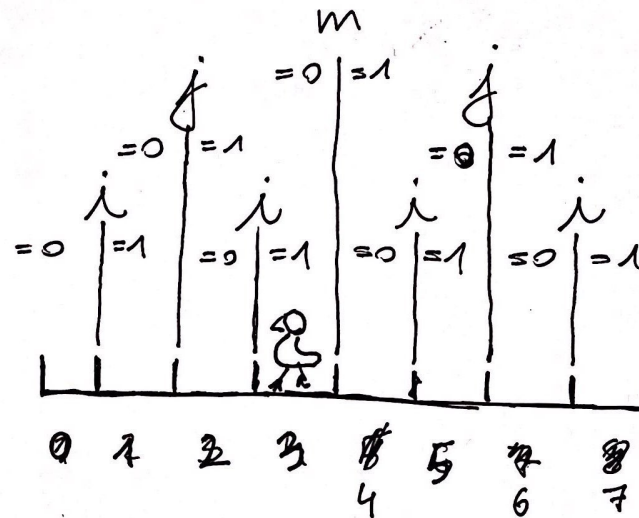
Variable:

$x\_pigeon\_m = 0$

$x\_pigeon\_j = 1$

$x\_pigeon\_i = 1$

holes:

Binary $\longrightarrow$ Decimal

0 1 1   3

"Pigeon sits in hole 3"