i_x : # bit

0010 1001

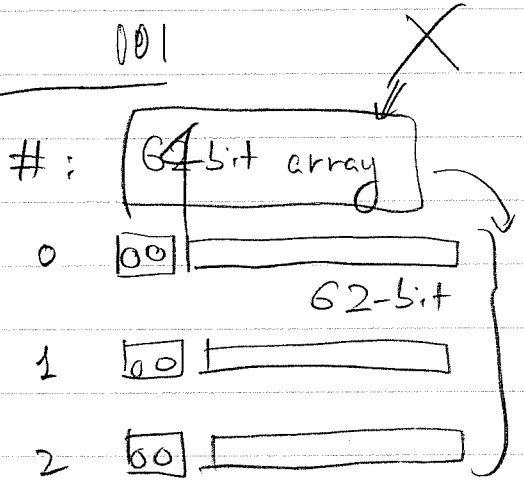
165

001

n1 0010 1001 k=3

n2 0000 0111 nk=2

x = 0



l_n2 ∈ # of bits in n2

# of base × 2 = nk × 2

i_n : Choose one of elements in X.

62

if l_n2,

1-62 ⇒ i_n = 0

63-124 ⇒ i_n = 1

i_x : # bits packed in x

n & (1 << j_n)

n & 1

n : the 64-bit # at i_n

j_n : index of current bit

if l_n2,

1-61 ⇒ 0-60

62 ⇒ 61

1-62 ⇒ 0-61