$N = buckets = 2$

$R = chaves - 3$

$i = bits - 1$

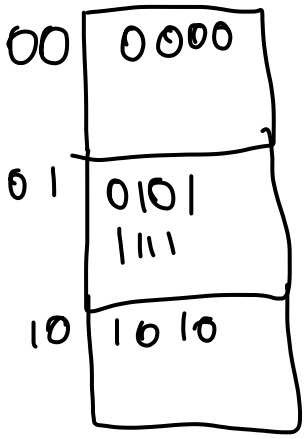
$2^1 = 2 < 3$
$2^2 = 4 > 3$
$\} 1,5 \rightarrow 2^{1,5} =$

0101 ✓
0111
0001 ✓

$4/2 = 2 > 1,7 \rightarrow \log_2 3 = 1,5$

Split

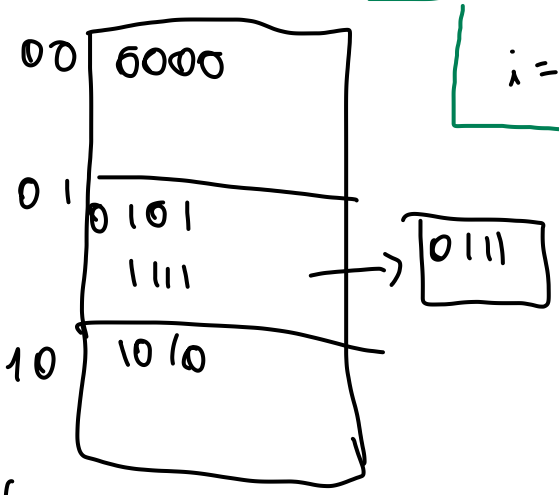
(logo, aumenta a qtd de bits significativos



$R = 3$
$N = 4$
$i = \log_2 3 = 1,5$

0111 → $N = 5/3 = 1,6666$

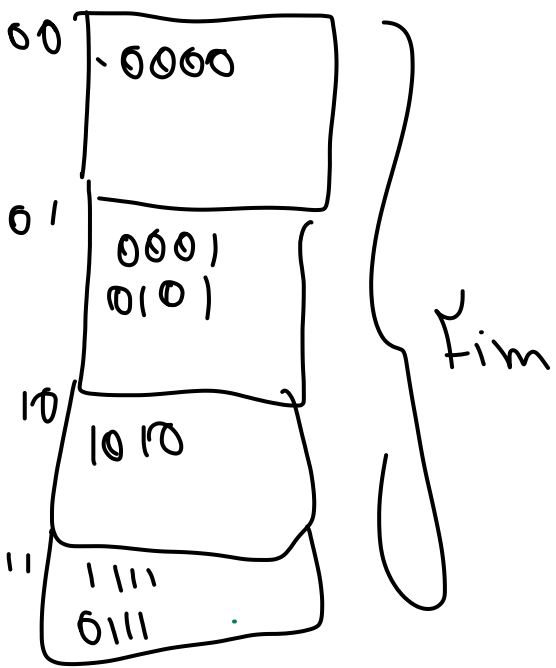
$i = \log_2 3 = 1,5$



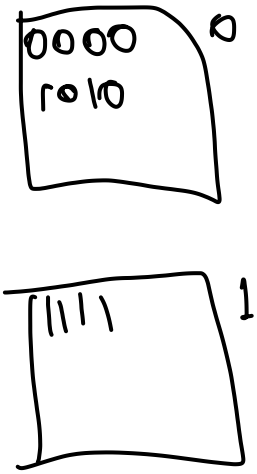
0001 → $6/3 = 2 > 1,7$

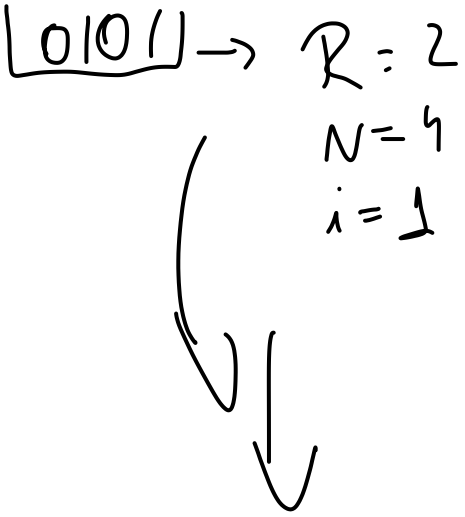
Split

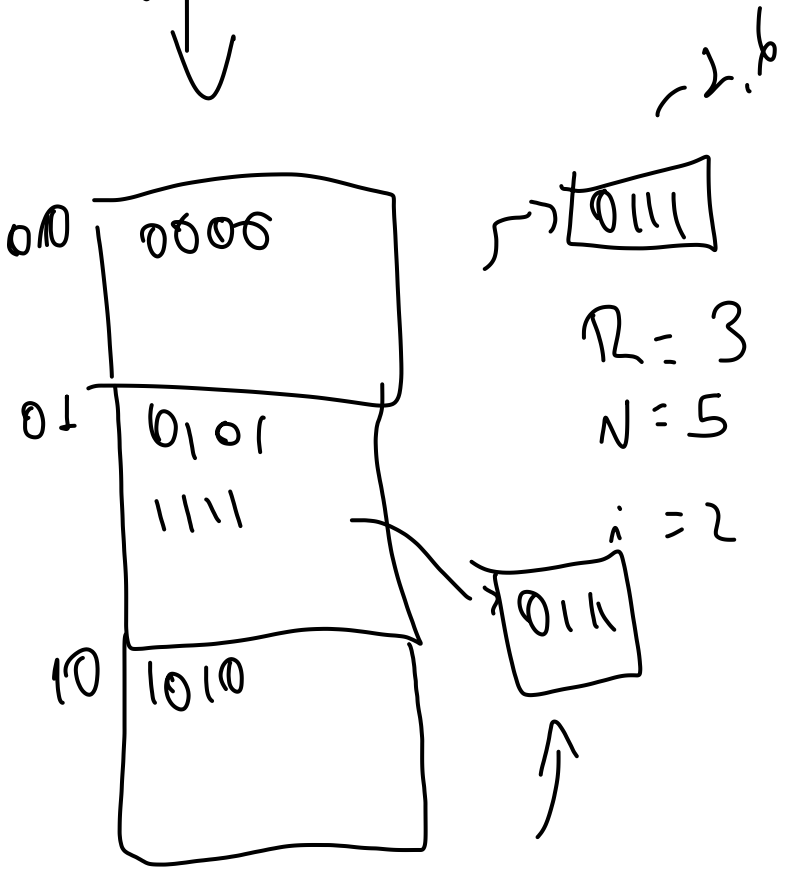
$\log_2 4 = 2$



Fim

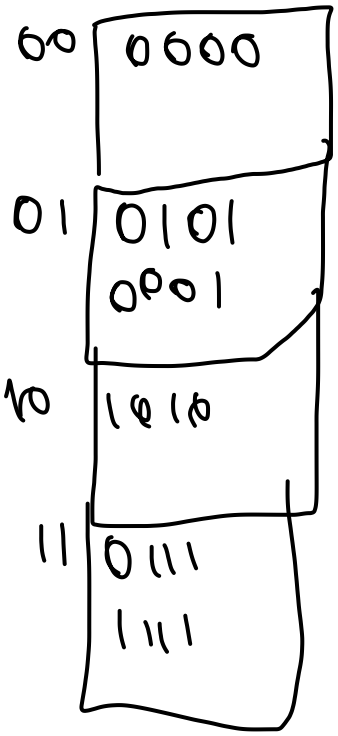




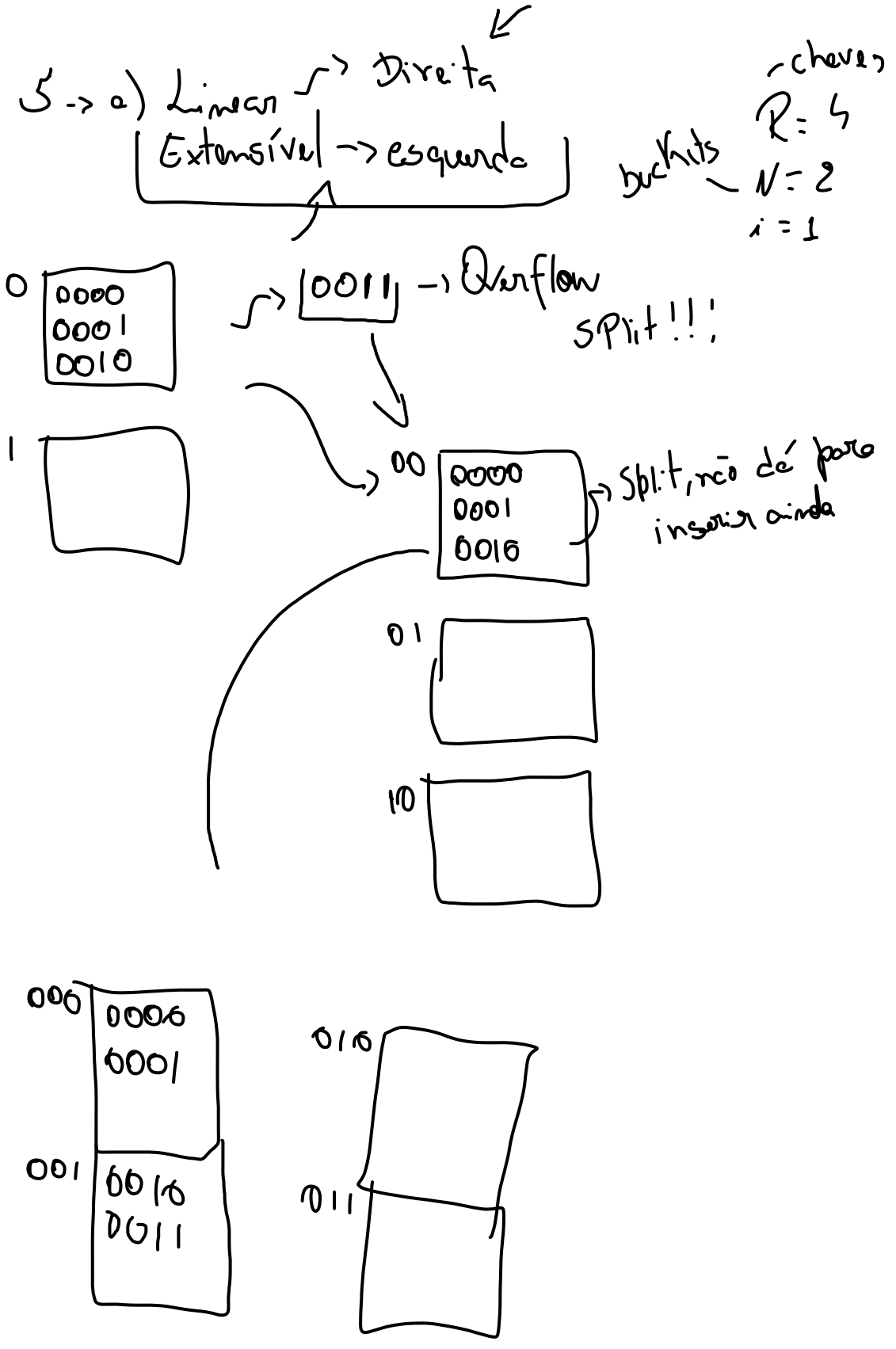


R = 2
N = 3
i = 1

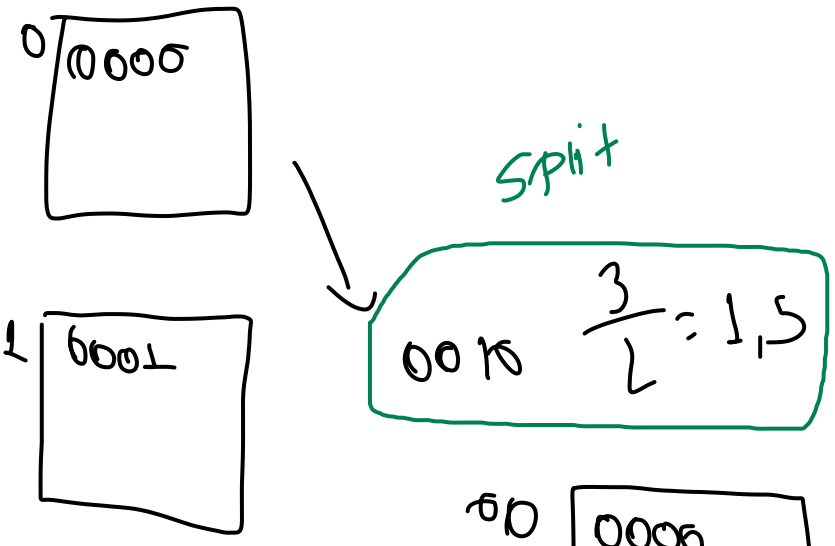
R = Qtd bucket
N = Chaves
i = bits



R = 6 > 2
N = 3
i = (2)


5 -> a) Linear -> Direita
Extensível -> esquerda
chaves
R = 4
buckets
N = 2
i = 1
0
0000
0001
0010
0011 -> Overflow
split!!!
1
00
0000
0001
0010
Split, não dá para inserir ainda
01
10
000
0000
0001
001
0010
0011
010
011

b)

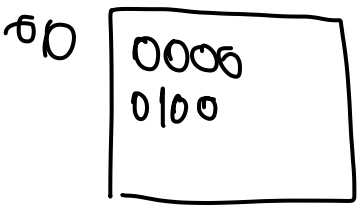


R = Chave

N = Bucket

i = 2

taxa = 1,5

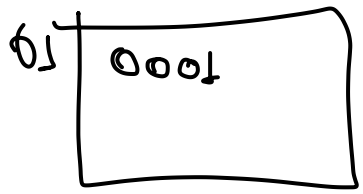


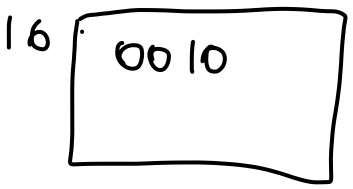
0101

↓

6/4 = 1,5

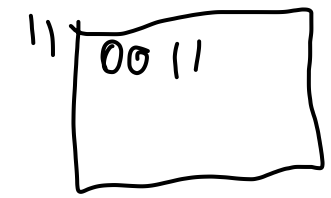
split





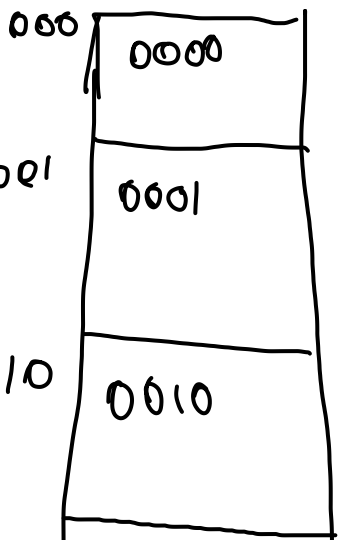
0011

4/3 = 1,3



5/4 = 1,25

↳ 0100



→ 101 → 6/8 = 0,75

011
0011
100
0100
101
0101
110
111