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Actividad 6 Técnicas de dispersión. Direcciónamiento calculado lineal

① $u = h_0 = \text{inserción}$ $(n=0, m=1) \quad l = n / (0.5 \cdot n \times n)$

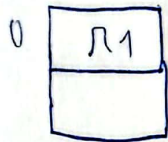
$h_1 = \text{expansión}$

$h_i = i \bmod 2^i$

$l \geq 0.9 \rightarrow \text{expansión}$

$l \leq 0.7 \rightarrow \text{combinar}$

$n_1 = 2369, h_0(n_1) = 2369 \% 2^0 = 0.1 = 0.5$ (solo hay un valor combinado)

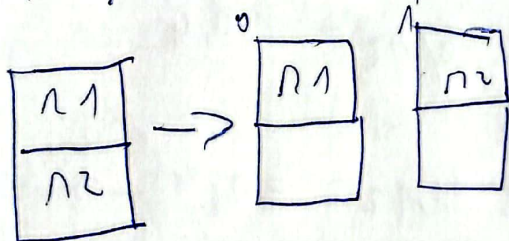


$n_2 = 3760, h_0(n_2) = 3760 \% 2^0 = 0$

$l = 1 \geq 0.9 \rightarrow \text{expansión}$ $h_1(n_1) = 2369 \% 2^1 = 1$

$n=0 \rightarrow \text{expansión bloque}$ $h_1(n_2) = 3760 \% 2^1 = 0$

$l = 2 / (2 \cdot 2) = 2/4 = 1/2 = 0.5 \leq 0.7 \rightarrow \text{la mitad de una expansión, no combinar}$



$2^0 - h \leq 1 = 11$ $(n=0, 11=1) ; (n=0, 21=2)$

$h_0 \rightarrow \text{inserción}$

$h_1 \rightarrow \text{expansión}$

$n_3 = 4692, h_1(n_3) = 4692 \% 2^1 = 0$

$l = 3 / (2 \cdot 2) = 3/4 = 0.75$

$h_2(n_2) = 3760 \% 2^2 = 0, n_4 = 4821, h_1(n_4) = 4821 \% 2^1 = 1$

$h_2(n_3) = 4692 \% 2^2 = 0, l = 4 / (2 \cdot 2) = 4/4 = 1 \geq 0.9$

$n=1$ bloque 0 $(n=0) \rightarrow \text{expansión}$

$l = 4 / (2 \cdot 3) = 0.67 < 0.7 \rightarrow \text{a mitad de una expansión, no combinar}$

$h_1(n_5) = 5659 \% 2^1 = 1, l = 5/6 = 0.83$ expansión bloque 1 $(n=1)$

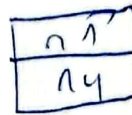
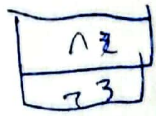
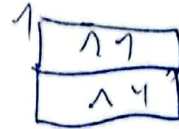
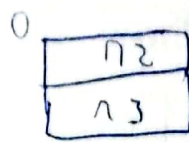
$h_1(n_6) = 1721 \% 2^1 = 1, l = 6/6 \rightarrow 1 > 0.9$

$$h_2(n_1) = 1 \quad l = 6/8 = 0,75 \quad n_2; M = 2, \quad n = 0 \quad l = 2/1 = 1$$

$$h_2(n_4) = 3$$

$$h_2(n_5) = 3$$

$$h_2(n_6) = 1$$



→ n₅ → n₆



$h = 0$; $H = 4$, $h_2 = \text{insersion}$; $h_3 = \text{expansion}$

$$h_2(n_7) = 1074 \%, \quad z^2 = 2 \quad l = 7/8 < 0,9$$

$$h_2(n_8) = 7115 \%, \quad z^2 = 3 \quad l = 8/8 > 0,9 \xrightarrow{n=0} \text{expansion } b_0$$

$$h_3(n_2) = 3760 \%, \quad z^3 = 0$$

$$h_3(n_3) = 4642 \%, \quad z^3 = 4 \quad l = 8/10$$

$$h_2(n_4) = 1020 \%, \quad z^2 = 0$$

$$l = 9/10 \geq 0,9 \xrightarrow{n=7} \text{expansion } b_1$$

$$h_3(n_9) = 1620 \%, \quad z^3 = 0$$

$$h_3(n_1) = 1$$

$$h_3(n_6) = 6$$

$$h_2(n_{10}) = 2424 \%, \quad z^2 = 0$$

$$l = 9/12 = 0,75; \quad h = 7$$

$$l = 10/12 < 0,9$$

$$h_3(n_{10}) = 2424 \%, \quad z^3 = 4$$

$$l = 11/12 \geq 0,9 \xrightarrow{n=2} \text{expansion } b_2$$

$$h_2(n_{11}) = 3$$

$$h_3(n_7) = 1 \quad n = 3; \quad l = 11/14$$

$$h_2(n_{12}) = 7$$

$$l = 13/14 \geq 0,9 \xrightarrow{n=3} \text{expansion } b_3$$

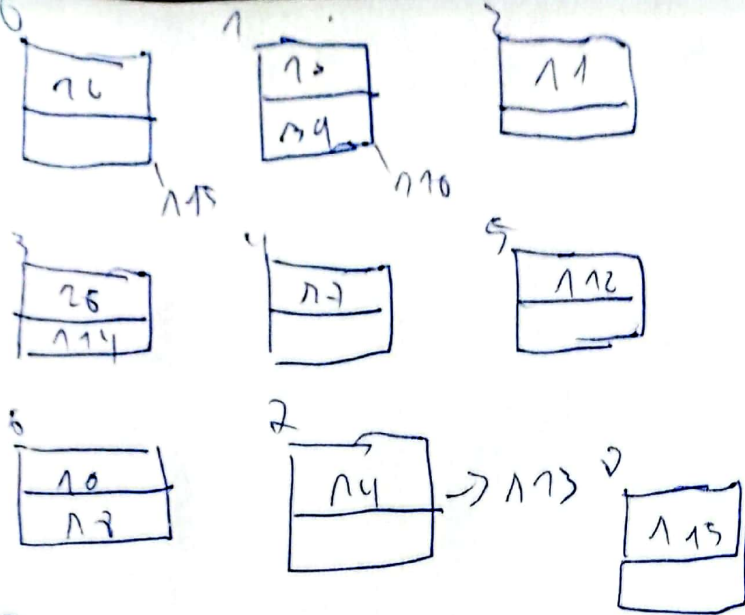
$$h_3(n_{12}) = 6, \quad h_2(n_{13}) = 3$$

$$h_3(n_4) = 7, \quad h_3(n_5) = 3; \quad h_3(n_7) = 3; \quad h_3(n_{11}) = 7; \quad h_3(n_{13}) = 7$$

$$h_3 = \text{insersion} \quad l = 13/16, \quad h = 4 = 1 = 7 \quad n = 0 \quad l = 2/1 = 1$$

$$h_4 = \text{expansion}; \quad h_3(n_{14}) = 5 \quad l = 14/15; \quad h_3(n_{15}) = 0 \quad l = 15/15 \geq 0,9$$

$$\xrightarrow{n=0} \text{expansion } b_0 \quad h_4(n_{12}) = 0; \quad h_4(n_{15}) = 7 \quad l = 15/17$$



⑧ combining $s_i \mid < 0,7$ ($n=2$ ($t_1=4$))

$h_2 = 16 \bmod 2^2 \rightarrow$ inserción

$h_3 = 19 \bmod 2^2 \rightarrow$ expansión

$h = 10 / (6 \cdot 2) = 10 / 12 = 0,83$

Donde $h_2 \Rightarrow h = 9 / 12 = 3/4$

h $h_3 \Rightarrow h = 8 / 12 = 2/3 = 0,67 < 0,7 \rightarrow$ comb 61 ($n=1$ con 65)

