

$$S = \frac{C}{BA} = \frac{192}{16 \cdot 3} = 4$$

$$x = 22 \Rightarrow x_n = \frac{x}{B} = \frac{22}{6} = 1$$



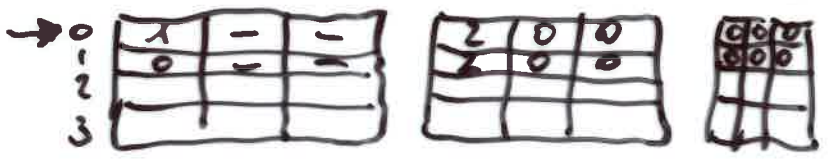
$\Rightarrow V=0$   
 0 LRU  $\Rightarrow$  BLOCCO PIU' VECCHIO  
 2 LRU  $\Rightarrow$  BLOCCO PIU' GIOVANE

$$x = 71 \Rightarrow x_n = \frac{x}{B} = 4$$

$$x_T = x_n \cdot S = 1$$

$$x_S = x_n \% S = 0$$

WADA  $\Rightarrow$  SUMISS  $\rightarrow$   $n=0$   
 SU WRITE HIT  $\rightarrow$   $n=1$



- STEP 1  $\rightarrow$  CALCOLO TUTTI GLI  $x_n$ ,  $x_T$ ,  $x_S$   
 STEP 2  $\rightarrow$  ANALIZZARE SET  $\rightarrow$  OGNI SET HA UNA STORIA A SE'

T	X <sub>T</sub>	X <sub>S</sub>	X <sub>N</sub>	4 <sub>T</sub>	TAG	LRU	N
R	1	0	1	→0	0 - -	2 0 0	0 0 0
R	4	1	0	→0	1 - -	2 0 0	0 0 0
R	4	1	0	→1	1 - -	2 0 0	0 0 0
R	8	2	0	→0	1 2 -	1 2 0	0 0 0
W	5	1	1	0	0 1 -	1 2 0	0 0 0
W	1	0	1	1	0 1 -	2 1 0	1 0 0
W	2	0	0	1	1 2 -	1 2 0	0 0 0
W	3	0	0	0	0 - -	2 0 0	0 0 0
W	11	2	1	0	0 2 -	1 2 0	0 0 0
W	13	3	1	0	0 1 3	1 0 2	0 0 0
W	13	3	1	0	0 1 3	1 0 2	0 0 0
W	13	3	1	1	0 X 3	1 0 2	1 0 1
W	7	1	1	0	0 2 1	0 1 2	0 0 0
W	6	1	2	0	0 - -	2 0 0	0 0 0
W	3	1	1	0	0 4 3	0 2 1	0 0 1
W	6	1	0	1	1 2 -	2 1 0	1 0 0
W	16	2	0	0	1 2 4	1 0 2	1 0 0
W	3	0	1	1	1 2 4	0 2 1	1 1 0
W	4	1	0	1	0 2 4	2 0 1	1 1 0
W	4	1	0	1	1 2 4	2 1 0	1 1 0
W	1	0	1	1	1 2 4	2 1 0	1 1 0
W	1	0	1	1	0 4 3	2 1 0	1 0 1

TAG FINALI

0	1 2 4
1	0 4 3
2	- - -
3	0 2 1

LISTA BLOCCHI  
ELIMINATI

$$X_N = X_T \cdot S + X_S$$

= 4

→  $X_T = 1, X_S = 1, X_N = 5$

TEMPO MEDIO ACCESSO

$$AMAT = t_h + m \cdot t_{pen}$$

$$m = \frac{\# \text{ACCESSI ON MISS}}{\# \text{ACCESSI TO LRU}} = \frac{11}{22}$$

$$AMAT = 5 + \frac{11}{22} \cdot 60 = 35ms$$

11 MISS