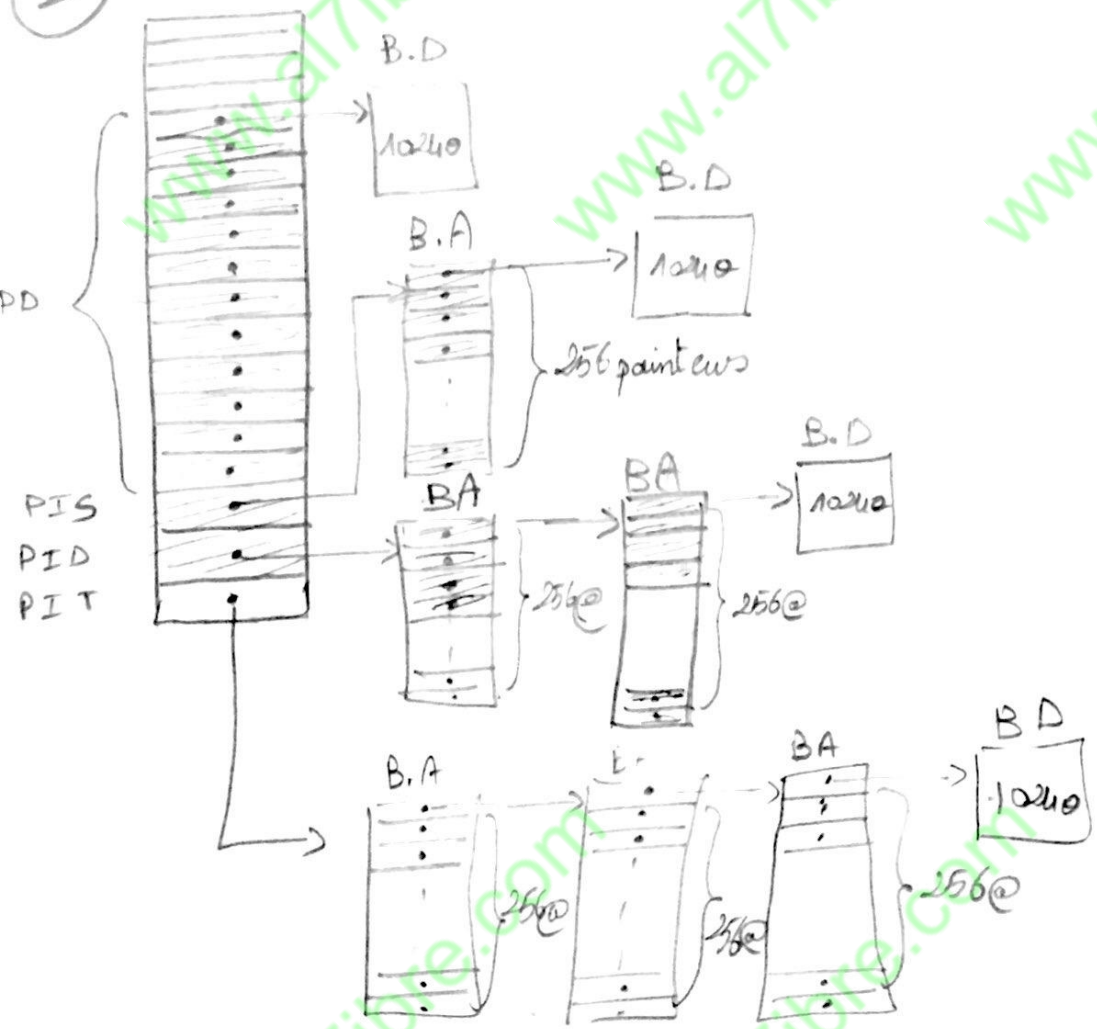
I)



1- $12 \times 1024 + 256 \times 1024 + 256^2 \times 1024 + 256^3 \times 1024 = 16\,843\,020$ Ko

2-1- $100000 / 1024 = 97{,}56 \Rightarrow$ 98 blocs de données

2-2- $98 + 1 = 99$ blocs

(98 ↑ BD, 1 ↓ PIS)

II) $20.000.000 / 4096 =$ 4883 blocs de données

$4883 - 12 - 1024 = 3847 - 1024 - 1024 - 1024 = 775$

(12 : P.D, 1024 : PIS)

$4 + (1024 - 4) \times 4 + (1024 - 775) \times 4 + (4096 - 3328) = 5848$

III

1)

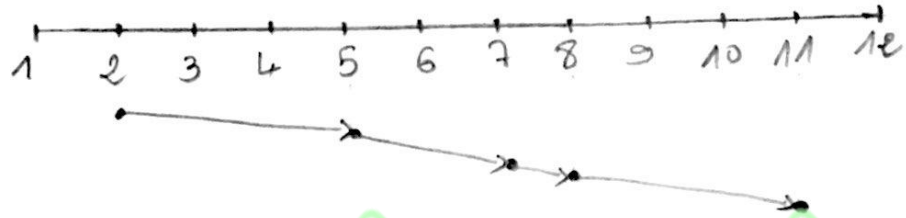
Pour $10 \times 2048 + 512 \cdot 2048 + 498 \times 512 \times 2048 = 523\,259\,904$ o

Pir $10 \times 2048 + 512 \times 2048 + 497 \times 512 \times 2048 + 1 = 522\,211\,329$ o

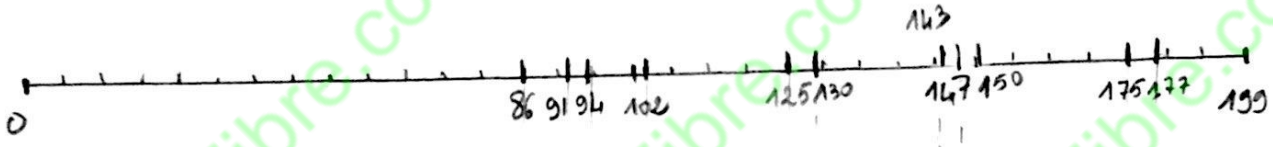
2) reste : $10 \times 2048 + 512 \times 2048 = 1069056$ o

perdu $2500000 - 1069056 = 1430944$ o

IV



V



PCTR

$(150-143) + (150-86) + (177-86)$

$= 162$

SCAN

$(199-143) + (199-86) = 169$

C-SCAN

$(199-143) + (130-0) + \text{saut} = 186 + \text{saut}$

LOOK

$(177-143) + (177-86) = 125$

C-LOOK

$(177-143) + (130-86) + \text{saut} = 78 + \text{saut}$

FIFO

$(143-86) + (147-86) + (147-91) + (177-91)$
$+ (177-94) + (150-94) + (150-102)$
$+ (175-102) + (175-130) = 565$