**TD n°7**

Exercice 1 :

1 2 4 2 3 5 4 1 3 2 5 6 4 1 7 3 6 4 2 1 5 3 2 4 7 1 3

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| Stratégies : | Défauts de page |
| Belady  FiFo  LiFo  LRU  FWF  2nd chance | 13  17  15  23  26  19 |

Belady :

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| **1** | **2** | **4** | **2** | **3** | **5** | **4** | **1** | **3** | **2** | **5** | **6** | **4** | **1** | **7** | **3** | **6** | **4** | **2** | **1** | **5** | **3** | **2** | **4** | **7** | **1** | **3** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1 | | |  | 1 | 1 |  |  |  | 1 |  | 1 |  |  | 7 | 3 |  |  |  | 3 | 3 |  |  |  | 3 | 3 |  |
|  | 2 | 2 |  | 2 | 5 |  |  |  | 5 |  | 6 |  |  | 6 | 6 |  |  |  | 1 | 5 |  |  |  | 7 | 1 |  |
|  |  | 4 |  | 4 | 4 |  |  |  | 4 |  | 4 |  |  | 4 | 4 |  |  |  | 4 | 4 |  |  |  | 4 | 4 |  |
|  |  |  |  | 3 | 3 |  |  |  | 2 |  | 2 |  |  | 2 | 2 |  |  |  | 2 | 2 |  |  |  | 2 | 2 |  |

FiFo :

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| **1** | **2** | **4** | **2** | **3** | **5** | **4** | **1** | **3** | **2** | **5** | **6** | **4** | **1** | **7** | **3** | **6** | **4** | **2** | **1** | **5** | **3** | **2** | **4** | **7** | **1** | **3** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1 |  |  | 1 | 5 |  | 5 |  | 5 |  | 5 | 4 |  | 4 | 4 |  |  | 4 | 1 | 1 |  |  | 1 | 1 |  | 3 |
|  | 2 | 2 |  | 2 | 2 |  | 1 |  | 1 |  | 1 | 1 |  | 7 | 7 |  |  | 7 | 7 | 5 |  |  | 5 | 5 |  | 5 |
|  |  | 4 |  | 4 | 4 |  | 4 |  | 2 |  | 2 | 2 |  | 2 | 3 |  |  | 3 | 3 | 3 |  |  | 4 | 4 |  | 4 |
|  |  |  |  | 3 | 3 |  | 3 |  | 3 |  | 6 | 6 |  | 6 | 6 |  |  | 2 | 2 | 2 |  |  | 2 | 7 |  | 7 |

LiFo :

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **4** | **2** | **3** | **5** | **4** | **1** | **3** | **2** | **5** | **6** | **4** | **1** | **7** | **3** | **6** | **4** | **2** | **1** | **5** | **3** | **2** | **4** | **7** | **1** | **3** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1 | 1 |  | 1 | 1 |  |  | 1 |  | 1 | 1 |  |  | 1 | 1 | 1 |  |  |  | 1 | 1 |  |  | 1 |  | 1 |
|  | 2 | 2 |  | 2 | 2 |  |  | 2 |  | 2 | 2 |  |  | 2 | 2 | 2 |  |  |  | 2 | 2 |  |  | 2 |  | 2 |
|  |  | 4 |  | 4 | 4 |  |  | 4 |  | 4 | 4 |  |  | 4 | 4 | 4 |  |  |  | 4 | 4 |  |  | 4 |  | 4 |
|  |  |  |  | 3 | 5 |  |  | 3 |  | 5 | 6 |  |  | 7 | 3 | 6 |  |  |  | 5 | 3 |  |  | 7 |  | 3 |

LRU : (moins récent utilisé)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **4** | **2** | **3** | **5** | **4** | **1** | **3** | **2** | **5** | **6** | **4** | **1** | **7** | **3** | **6** | **4** | **2** | **1** | **5** | **3** | **2** | **4** | **7** | **1** | **3** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1 | 1 |  | 1 | 5 |  | 5 |  | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 3 |  | 3 | 3 | 1 | 1 |
|  | 2 | 2 | \* | 2 | 2 |  | 1 |  | 1 | 1 | 6 | 6 | 6 | 6 | 3 | 3 | 3 | 3 | 1 | 1 | 1 |  | 4 | 4 | 4 | 4 |
|  |  | 4 |  | 4 | 4 | 4 | 4 |  | 4 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 2 | 2 | 2 | 2 | \* | 2 | 2 | 2 | 3 |
|  |  |  |  | 3 | 3 |  | 3 | \* | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 5 | 5 |  | 5 | 7 | 7 | 7 |

FWF : (vider quand c'est plein)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **1** | **2** | **4** | **2** | **3** | **5** | **4** | **1** | **3** | **2** | **5** | **6** | **4** | **1** | **7** | **3** | **6** | **4** | **2** | **1** | **5** | **3** | **2** | **4** | **7** | **1** | **3** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1 | 1 |  | 1 | 5 | 5 | 5 | 5 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 1 | 1 |
|  | 2 | 2 |  | 2 |  | 4 | 4 | 4 |  | 5 | 5 | 5 |  | 7 | 7 | 7 |  | 2 | 2 | 2 |  | 2 | 2 | 2 |  | 3 |
|  |  | 4 |  | 4 |  |  | 1 | 1 |  |  | 6 | 6 |  |  | 3 | 3 |  |  | 1 | 1 |  |  | 4 | 4 |  |  |
|  |  |  |  | 3 |  |  |  | 3 |  |  |  | 4 |  |  |  | 6 |  |  |  | 5 |  |  |  | 7 |  |  |

2nd chance :

(1 ou 0 en 2ème ligne de chaque case = au bit de la case)

(souligné = place du curseur dans la mémoire)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **4** | **2** | **3** | **5** | **4** | **1** | **3** | **2** | **5** | **6** | **4** | **1** | **7** | **3** | **6** | **4** | **2** | **1** | **5** | **3** | **2** | **4** | **7** | **1** | **3** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 1 | 1 1 | 1 1 |  | 1 1 | 5 1 | 5 1 | 5 1 | 5 1 | 5 0 | 5 1 | 5 1 | 5 0 | 1 1 | 1 1 | 1 1 | 1 0 | 4 1 | 4 1 | 4 1 | 4 0 | 3 1 | 3 1 | 3 1 | 3 1 | 3 1 | 3 1 |
|  | 2 1 | 2 1 |  | 2 1 | 2 0 | 2 0 | 1 1 | 1 1 | 1 0 | 1 0 | 1 0 | 4 1 | 4 1 | 4 0 | 4 0 | 6 1 | 6 1 | 6 0 | 6 0 | 5 1 | 5 1 | 5 1 | 5 0 | 7 1 | 7 1 | 7 1 |
|  |  | 4 1 |  | 4 1 | 4 0 | 4 1 | 4 1 | 4 1 | 2 1 | 2 1 | 2 1 | 2 1 | 2 0 | 7 1 | 7 1 | 7 1 | 7 0 | 2 1 | 2 1 | 2 1 | 2 0 | 2 1 | 2 0 | 2 0 | 1 1 | 1 1 |
|  |  |  |  | 3 1 | 3 0 | 3 0 | 3 0 | 3 1 | 3 0 | 3 0 | 6 1 | 6 1 | 6 0 | 6 0 | 6 0 | 3 1 | 3 0 | 3 0 | 1 1 | 1 1 | 1 0 | 1 0 | 4 1 | 4 1 | 4 1 | 7 1 |