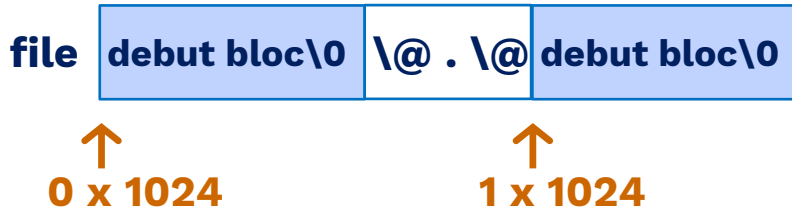


Primitive lseek()

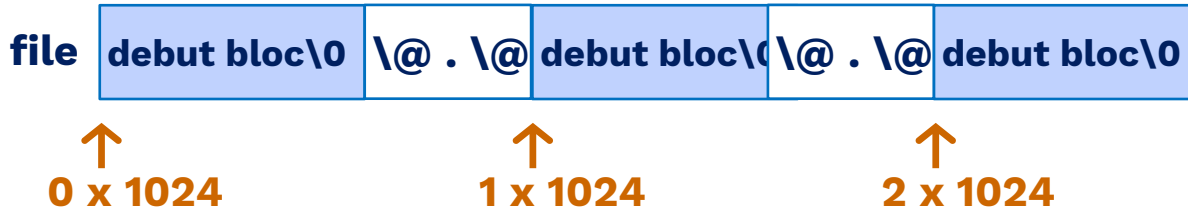
```
[student]$ ~/bin/lseek file 0
```



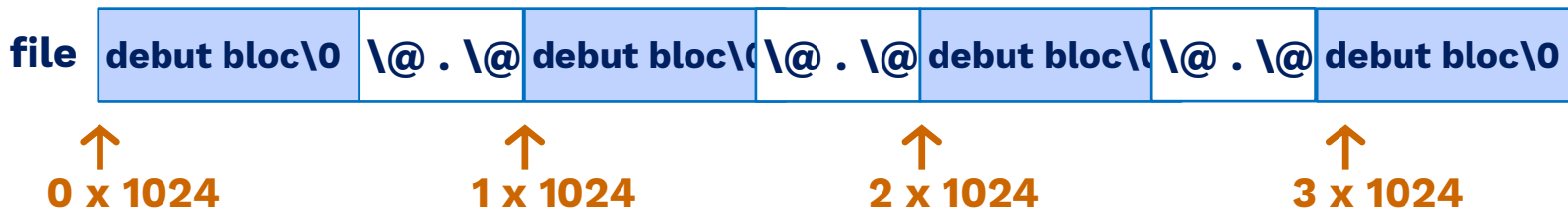
```
[student]$ ~/bin/lseek file 1
```



```
[student]$ ~/bin/lseek file 2
```

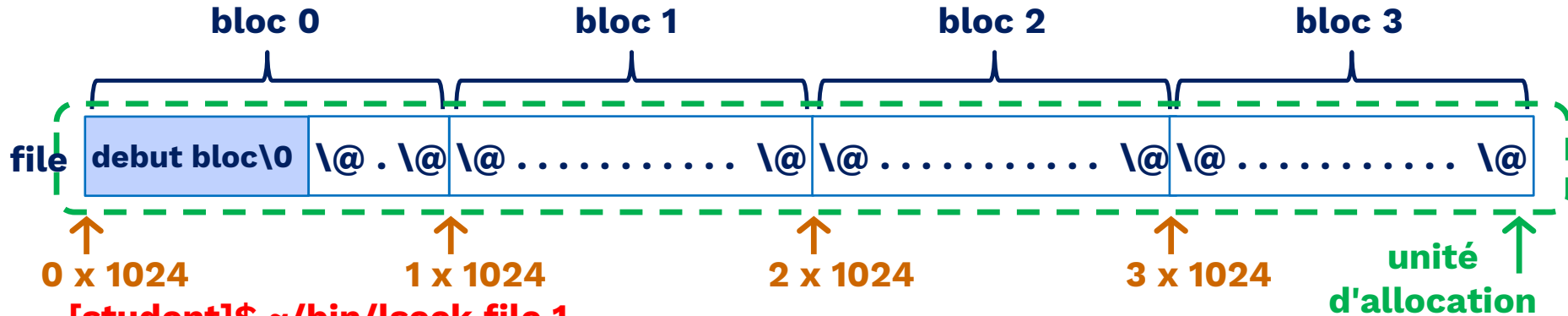


```
[student]$ ~/bin/lseek file 3
```

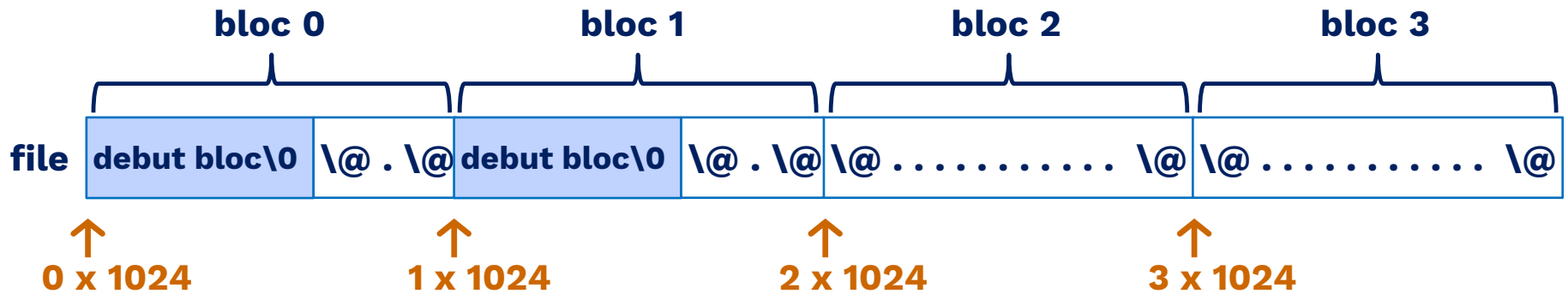


Primitive lseek()

[student]\$ ~/bin/lseek file 0

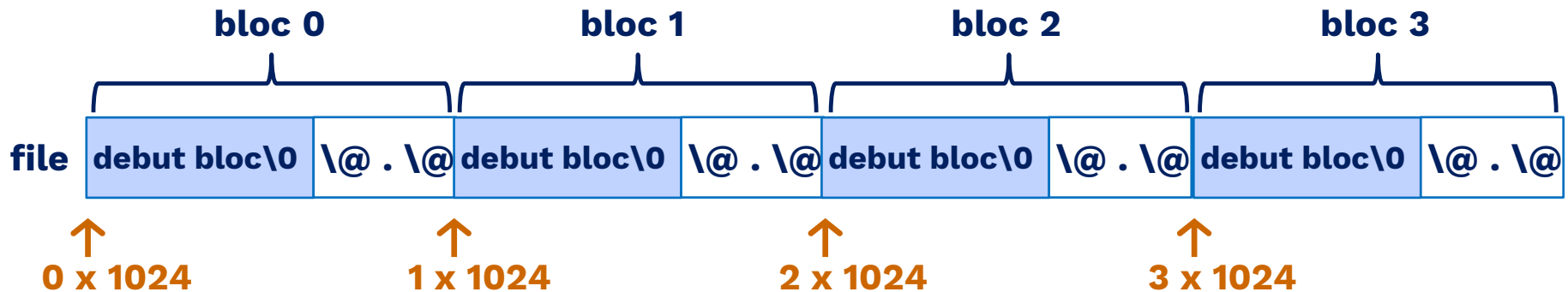


[student]\$ ~/bin/lseek file 1



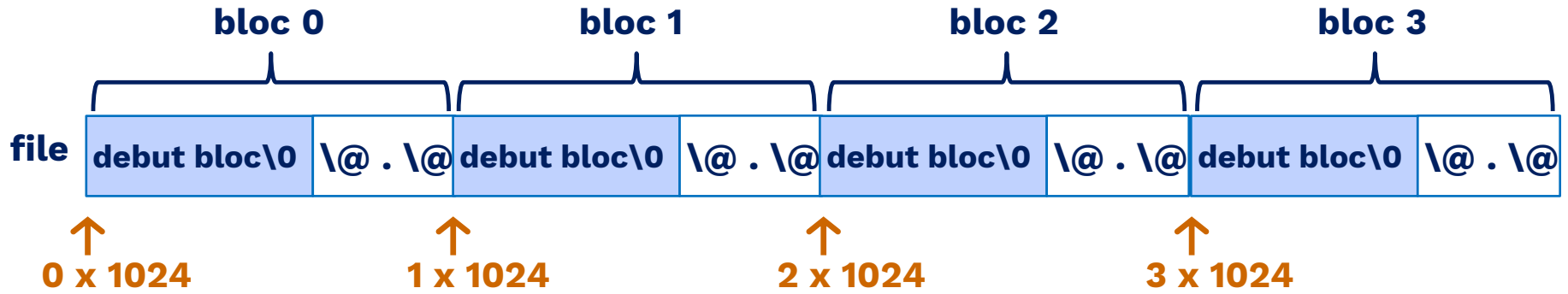
[student]\$ ~/bin/lseek file 2

[student]\$ ~/bin/lseek file 3

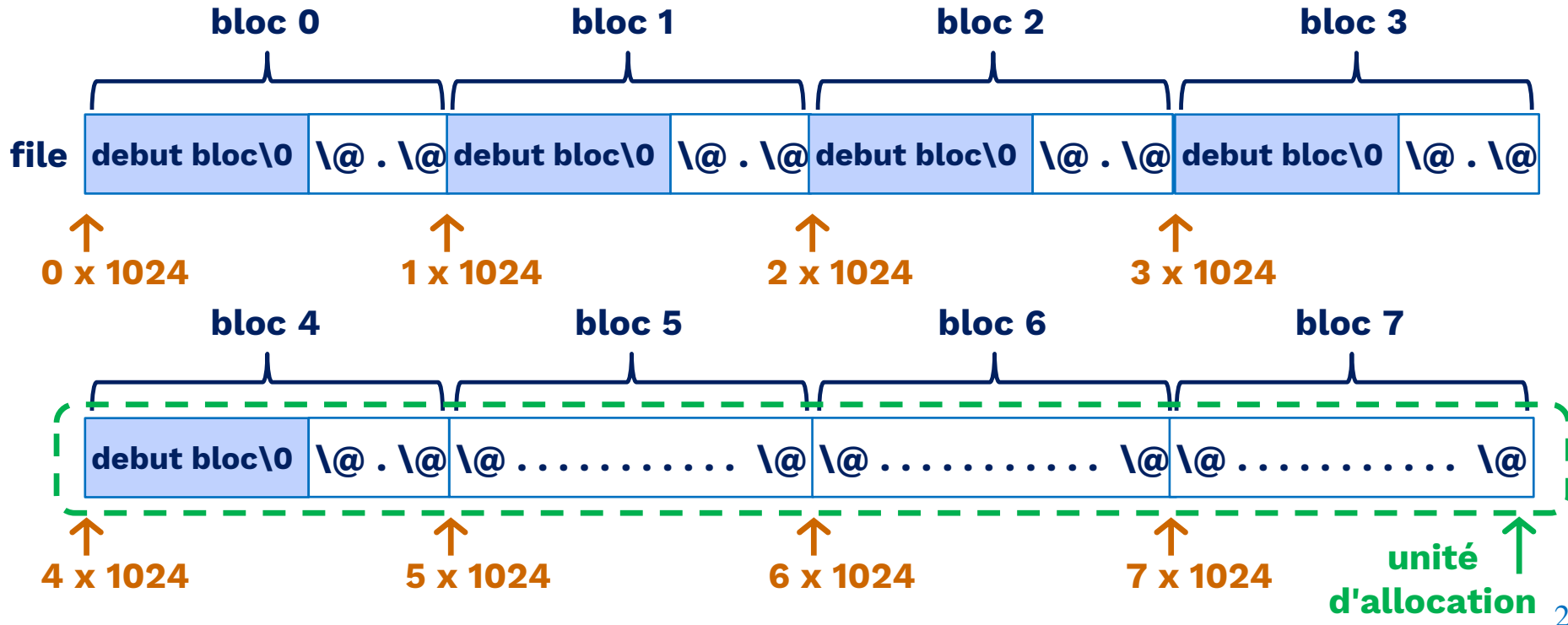


Primitive lseek()

[student]\$ ~/bin/lseek file 3

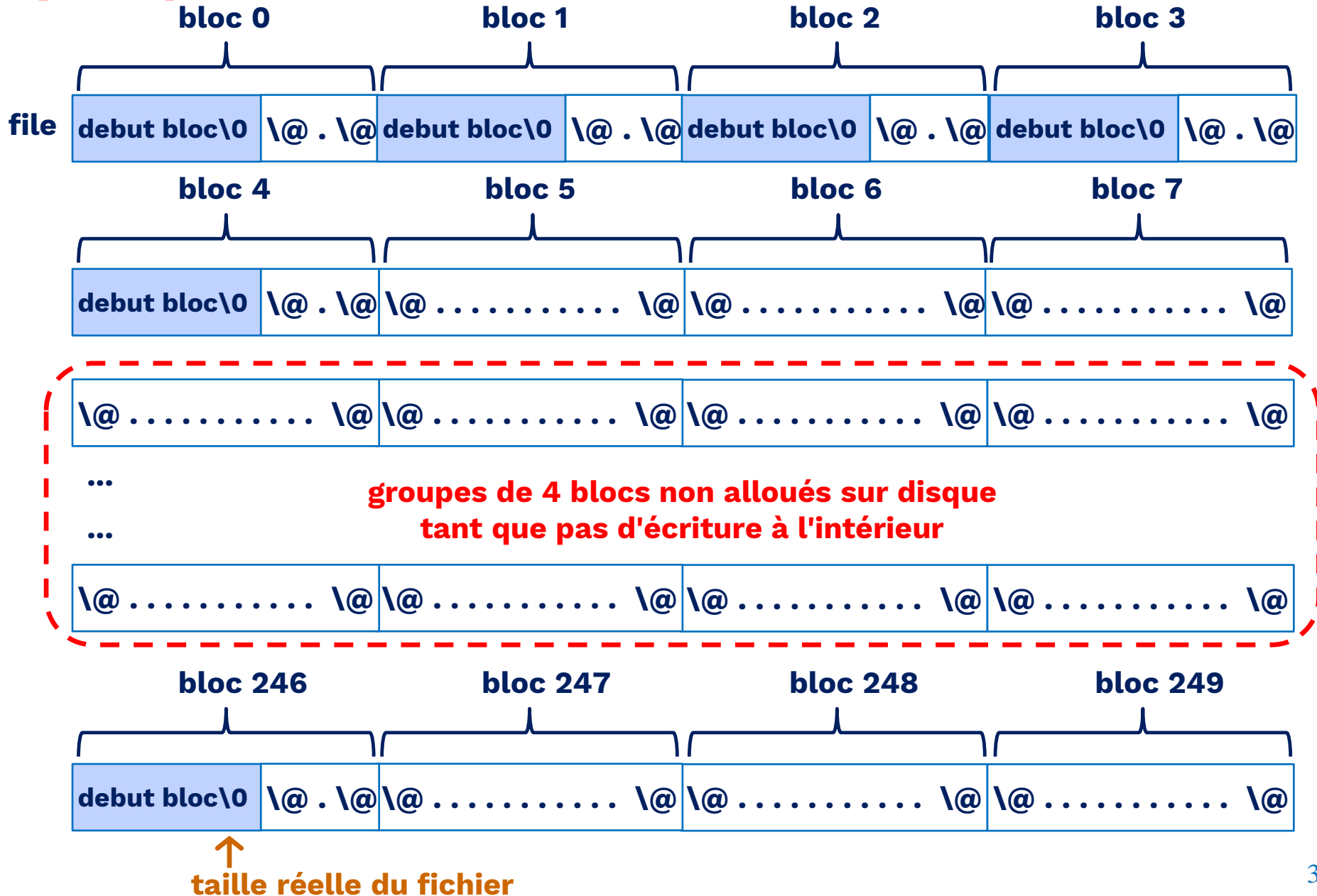


[student]\$ ~/bin/lseek file 4



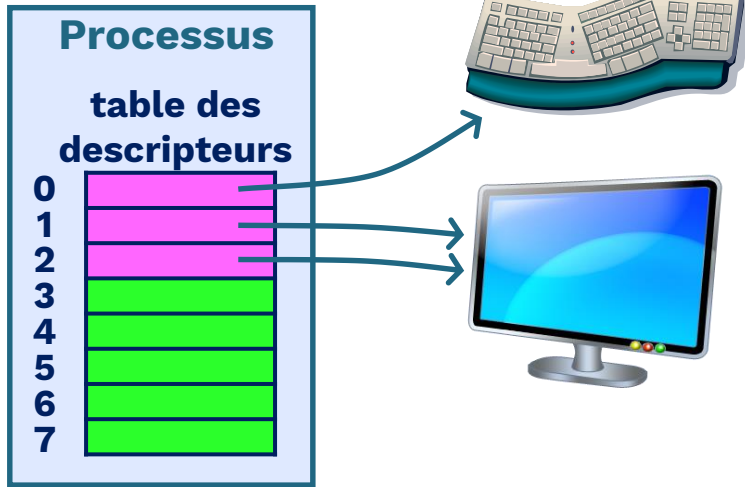
Primitive lseek()

[student]\$ ~/bin/lseek file 999

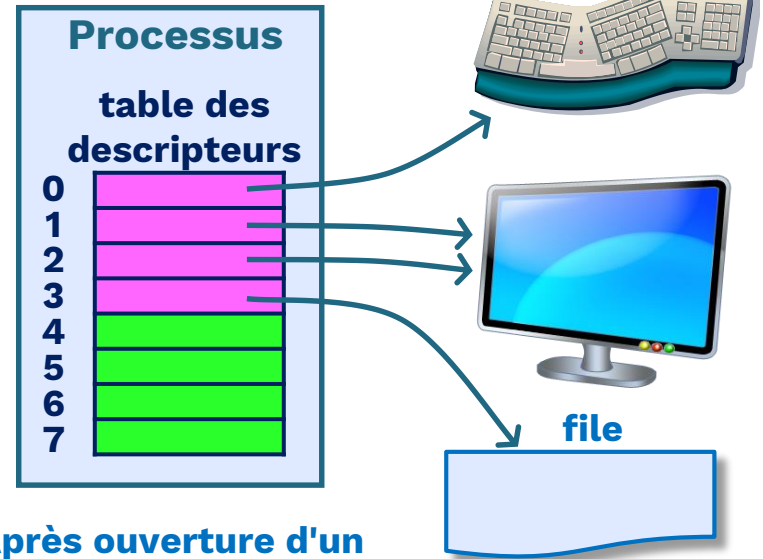


Duplication de Descripteurs

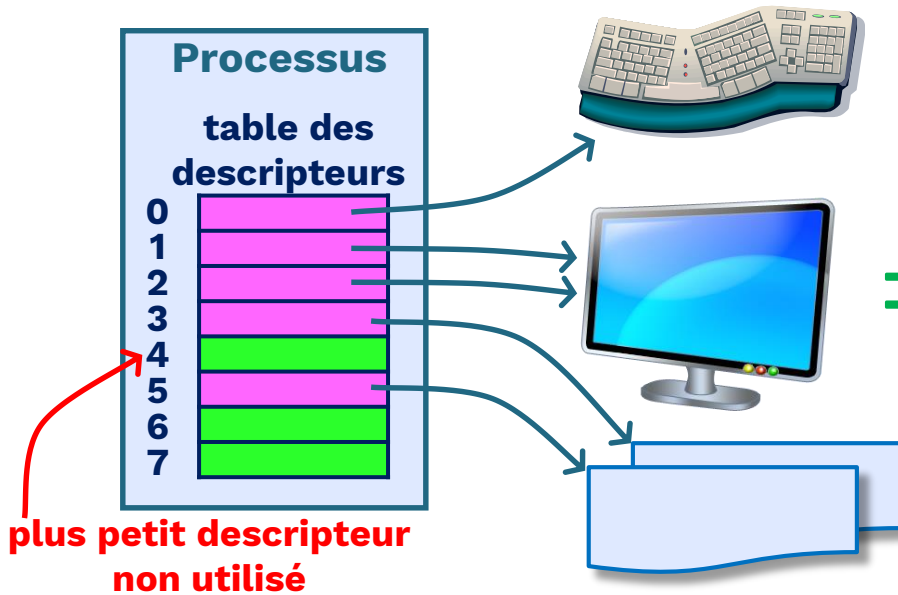
A la création du processus



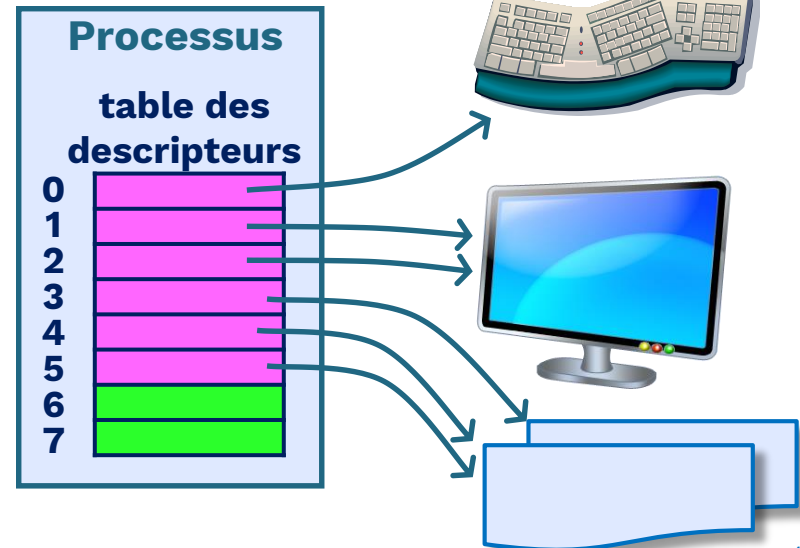
Après ouverture du fichier file



À un instant donné

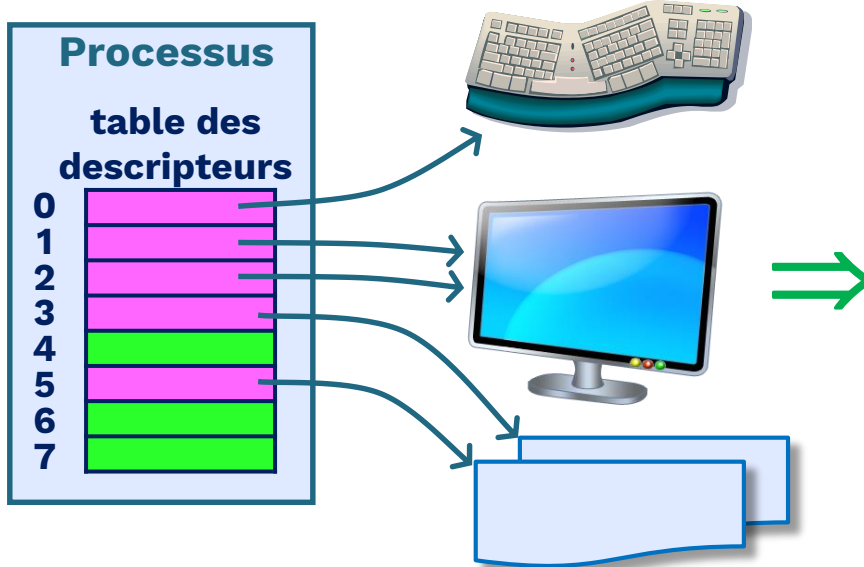


Après ouverture d'un nouveau fichier ou **dup(5)**

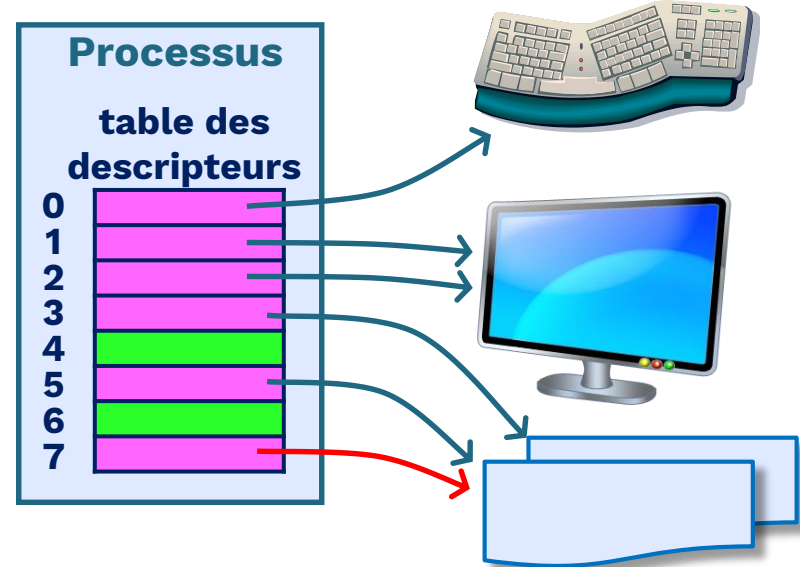


Duplication de Descripteurs

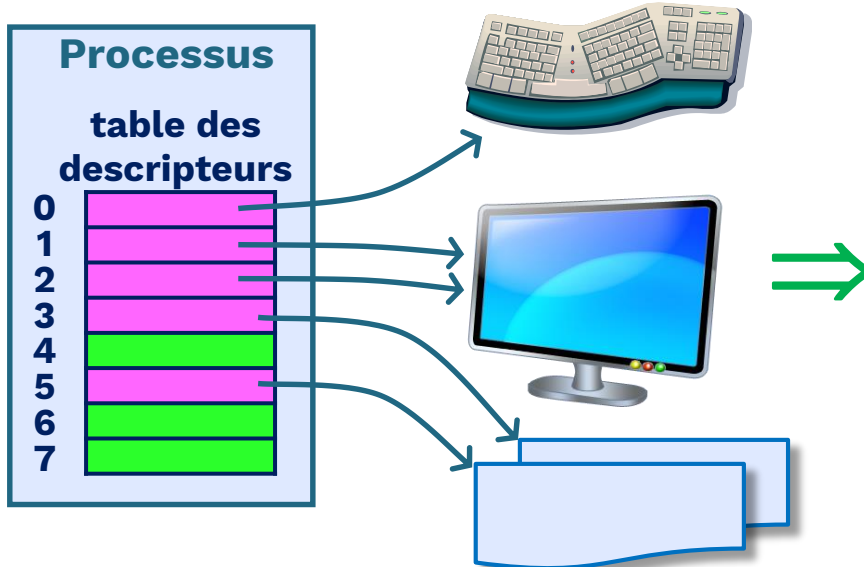
À un instant donné



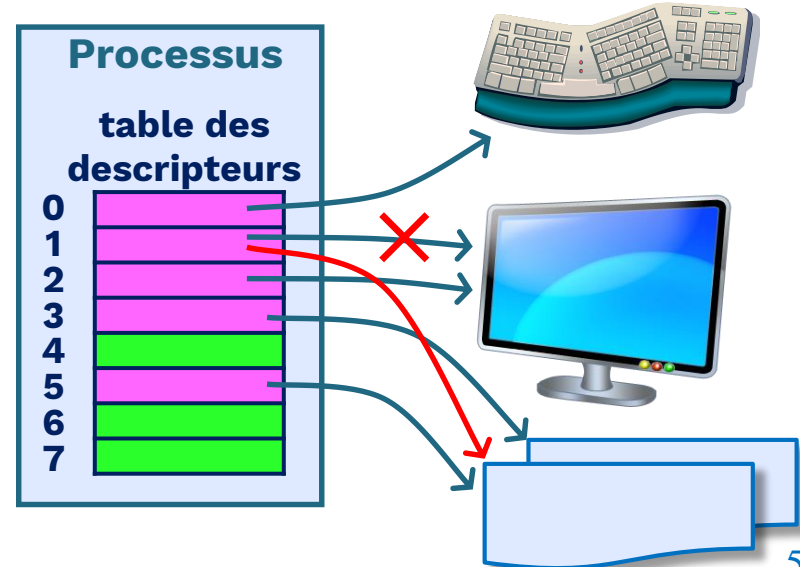
Après `dup2(5, 7)`



À un instant donné

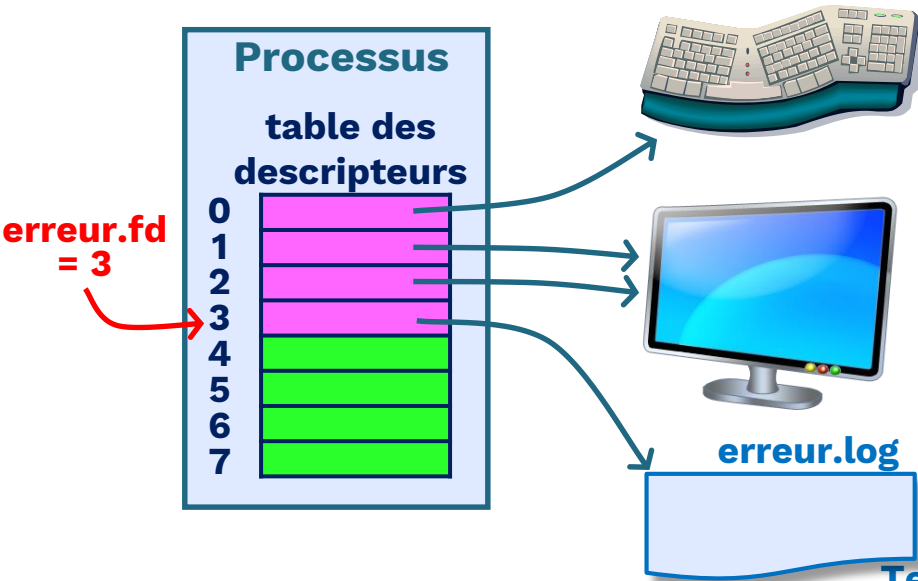


Après `dup2(5, 1)`

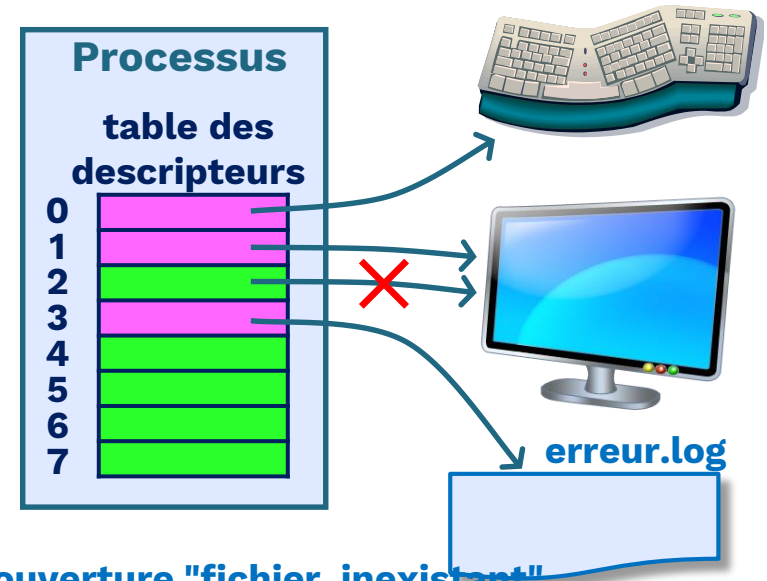


Déroulement Exécution dup_dup2.c

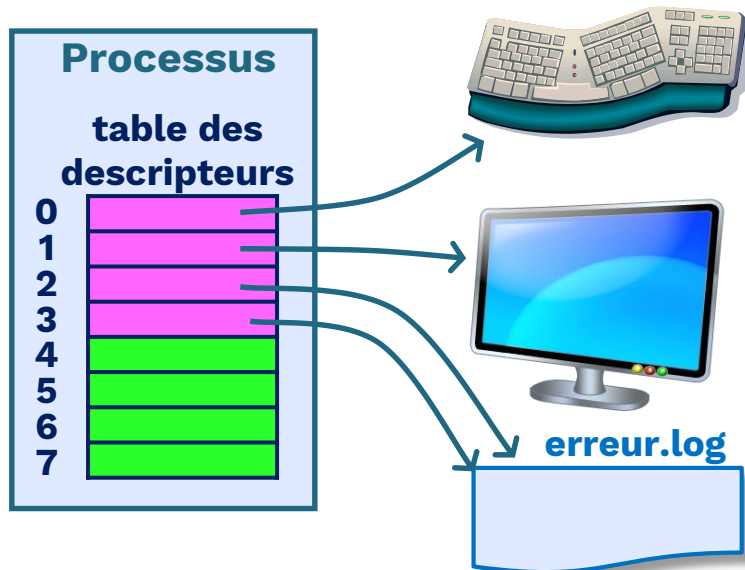
A la création de "erreur.log"



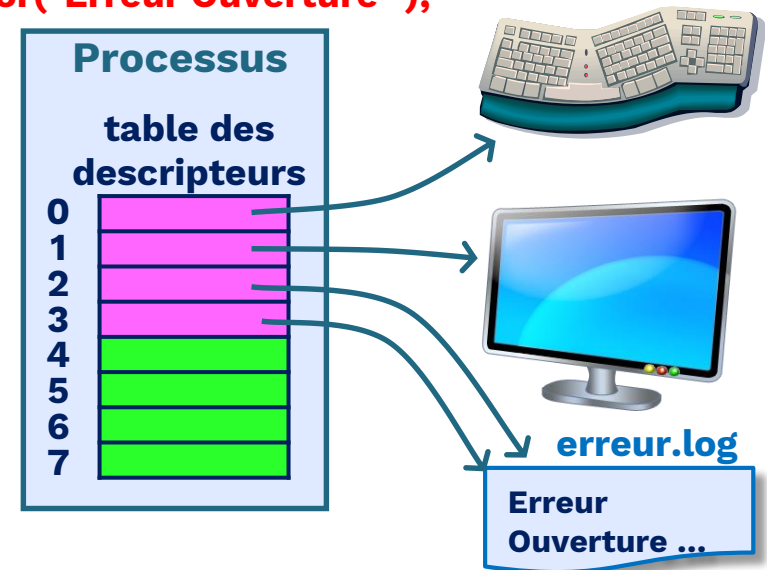
Après fermeture de **STDERR_FILENO**



Après **dup(erreur_fd)**

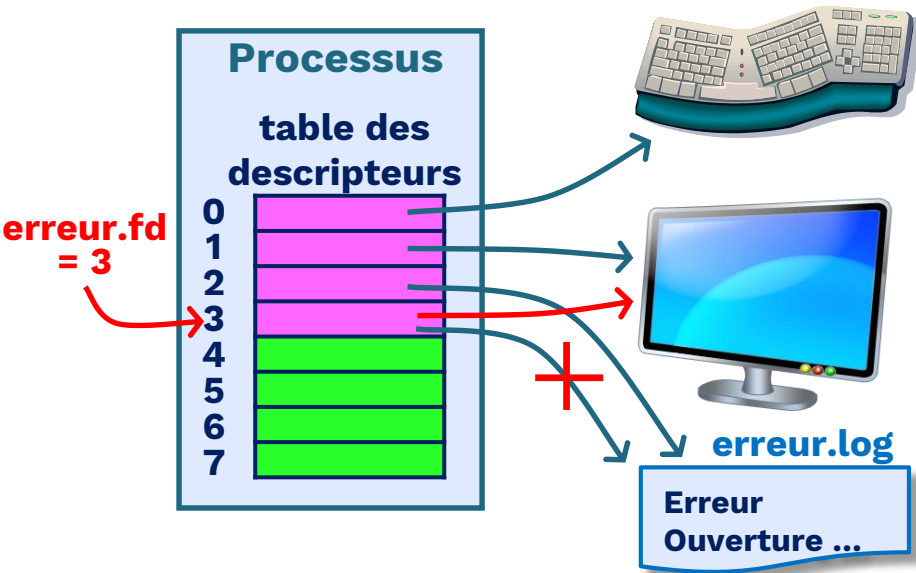


Tentative ouverture "fichier_inexistant"
perror("Erreur Ouverture ");

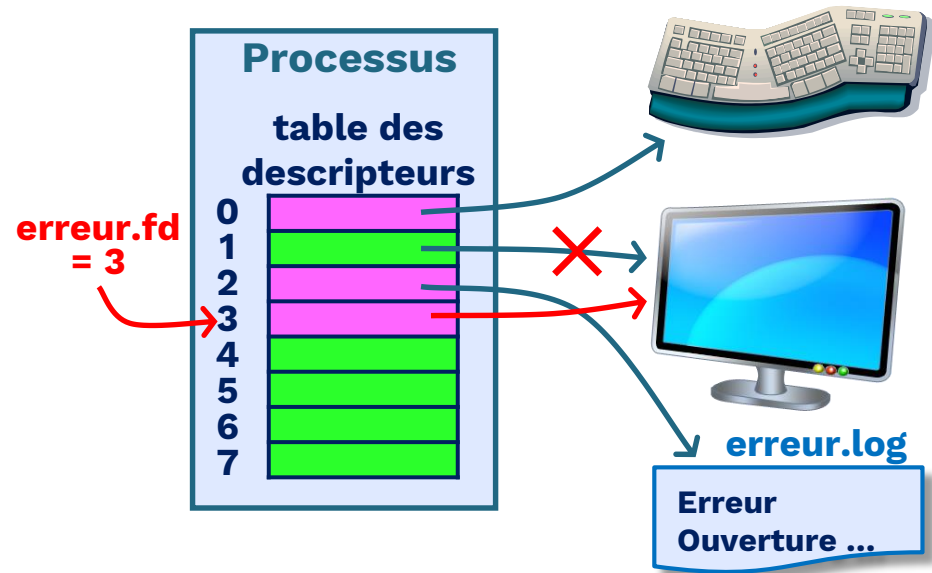


Déroulement Exécution dup_dup2.c (suite)

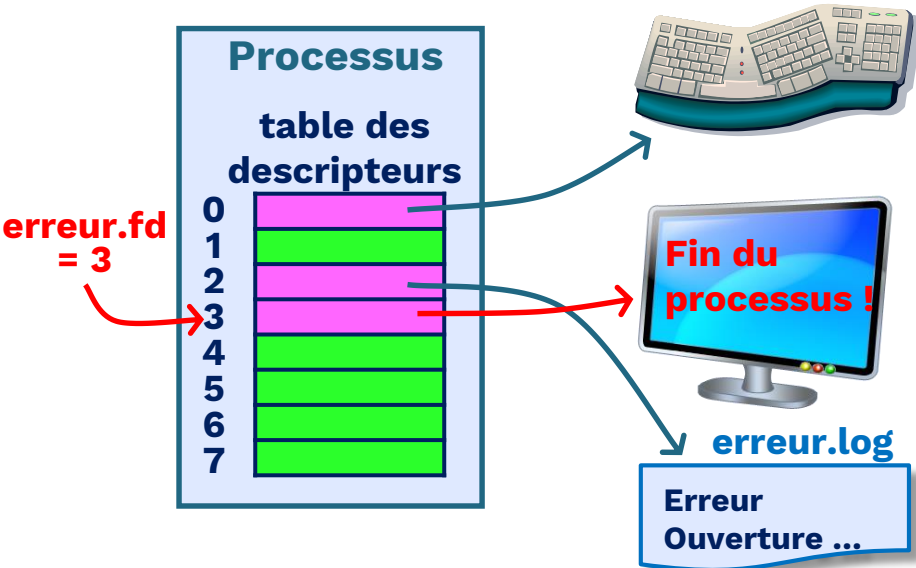
Après `dup2(STDOUT_FILENO, erreur_fd)`



Après `close(STDOUT_FILENO)`

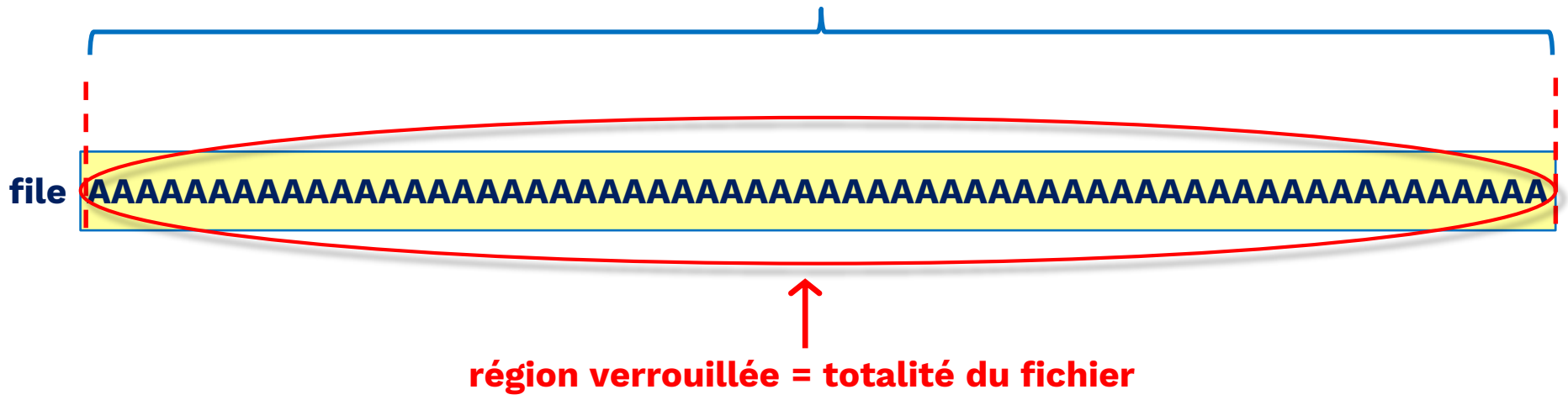


Après `write(erreur_fd, "Fin du processus ...")`

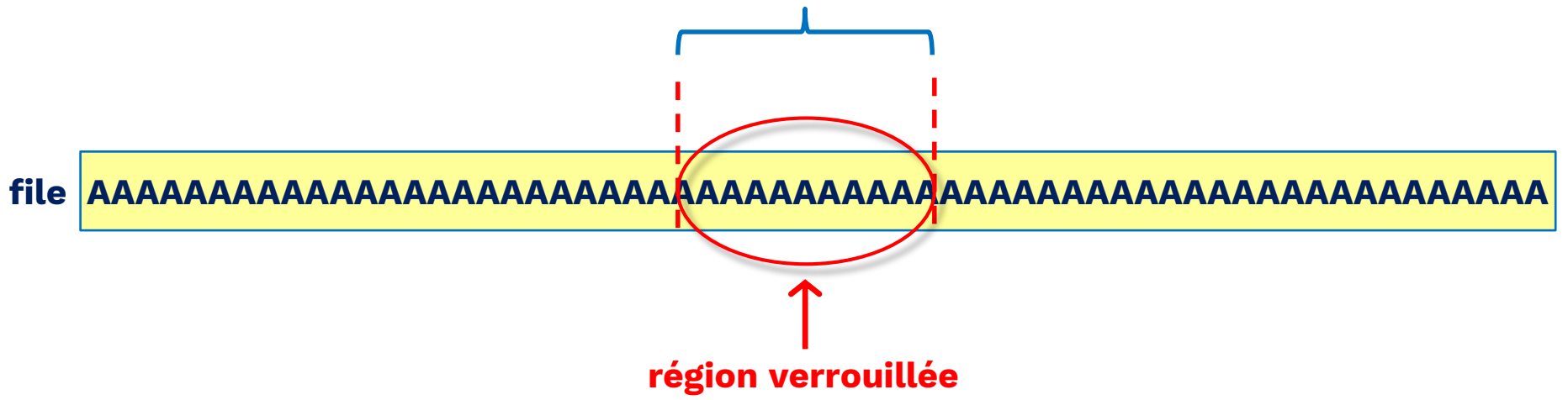


Portée des verrous

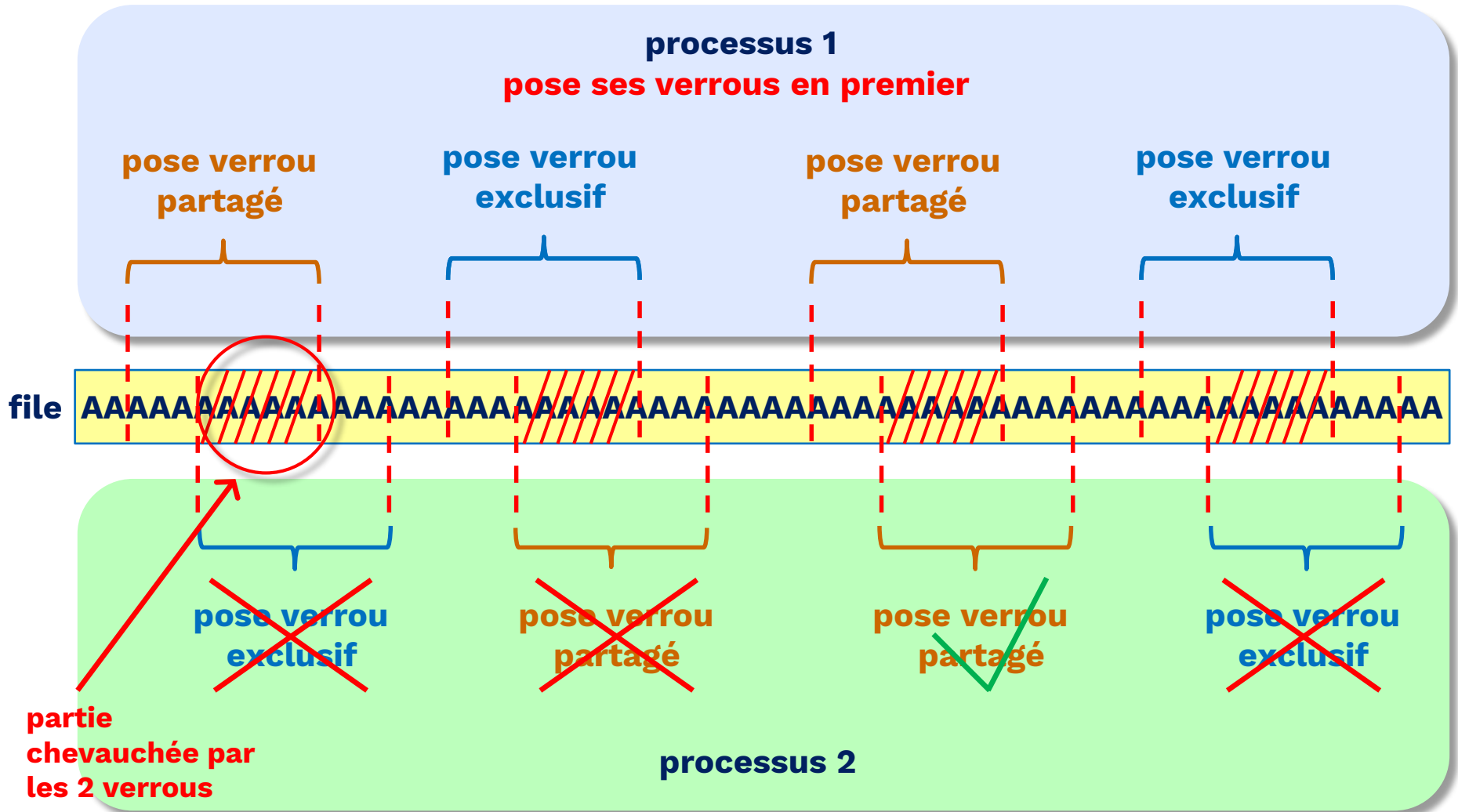
pose d'un verrou sur la totalité du fichier



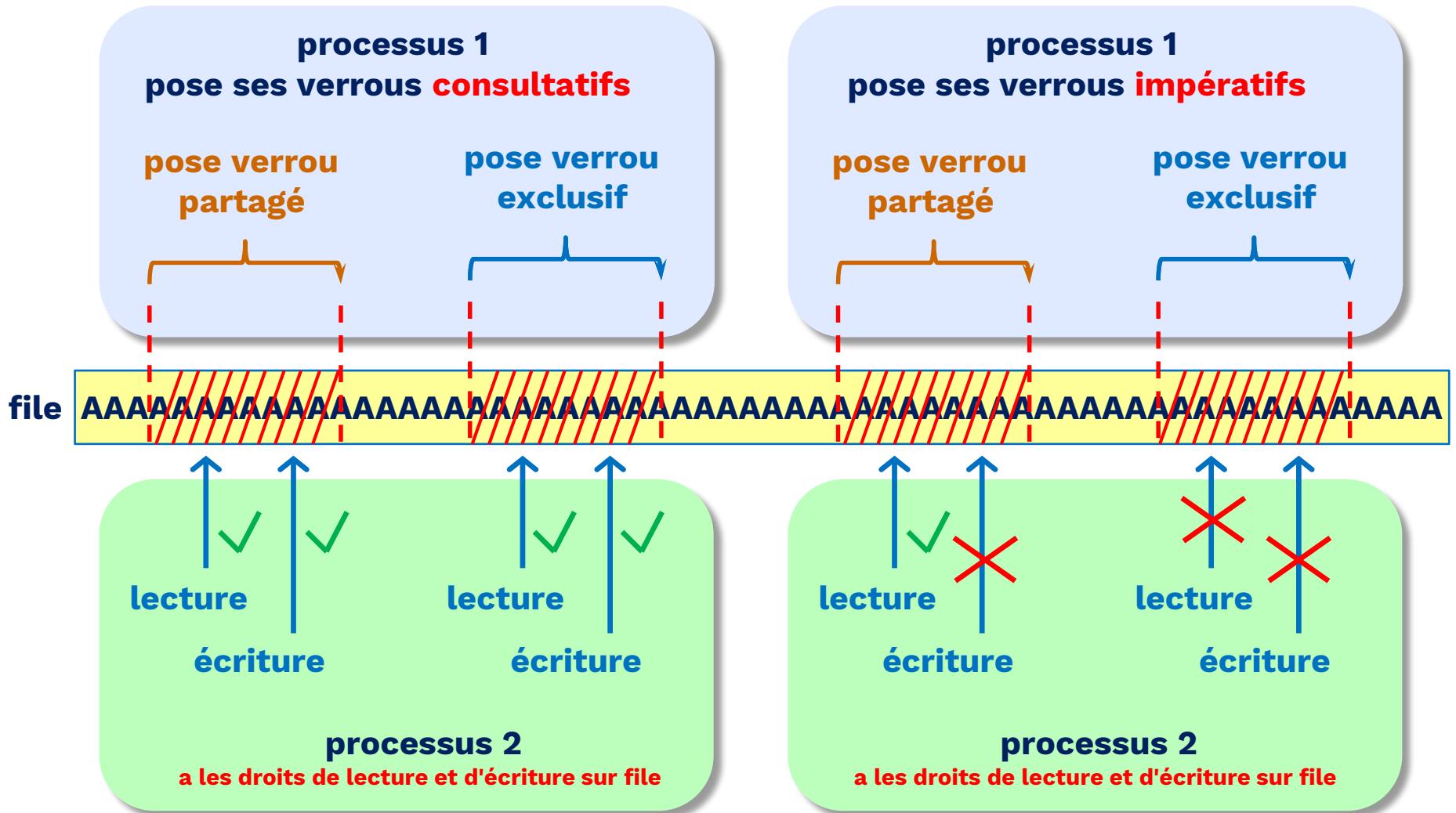
pose d'un verrou sur une région du fichier



Pose des verrous



Mode Opérateur des verrous



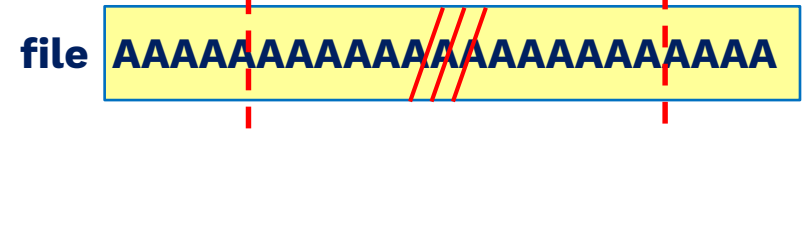
Détention des verrous d'un processus

zone commune aux 2 portées des 2 verrous

① verrou partagé



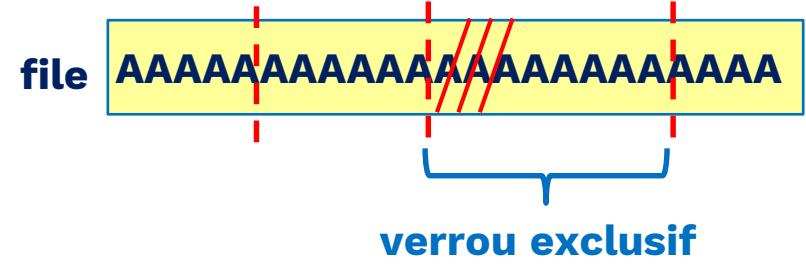
verrou partagé



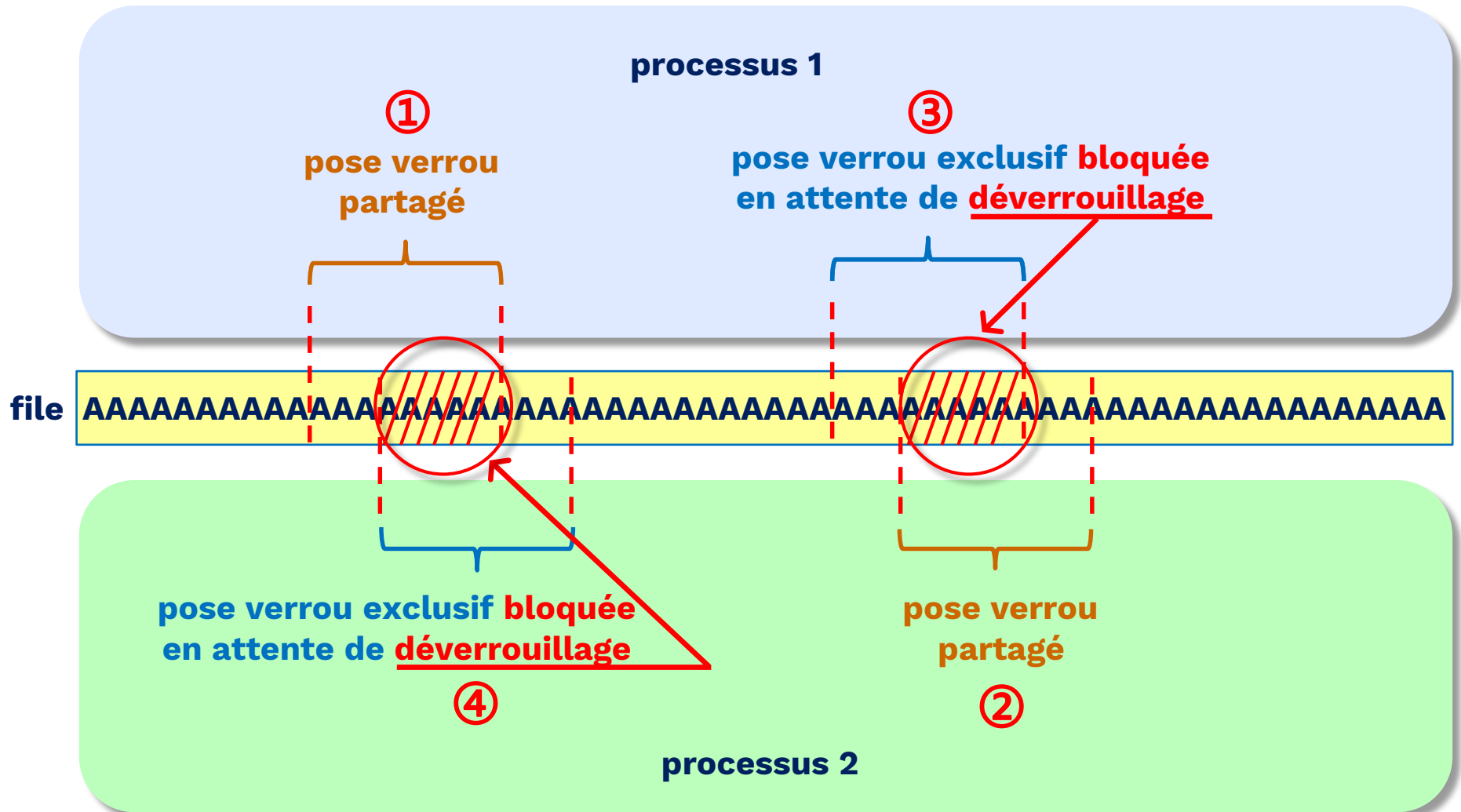
① verrou partagé



verrou partagé



Pose des verrous



Chaque processus attend que l'autre lève son verrou ⇒ Interblocage !