



# CLE - Assignment 1

Universidade de Aveiro - DETI

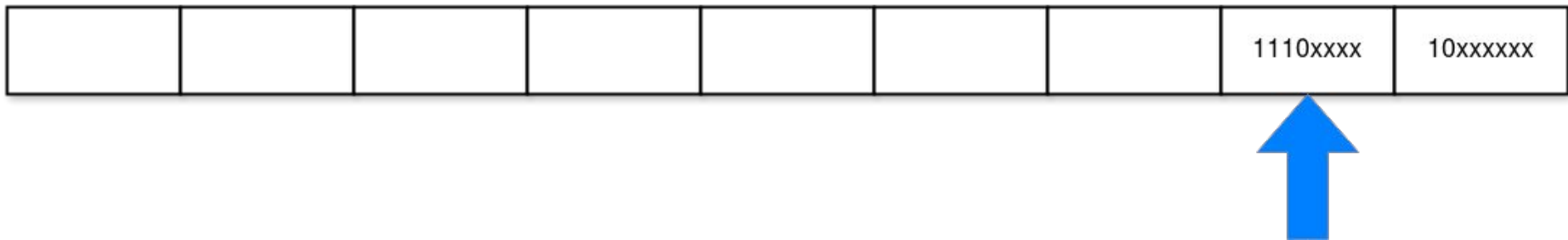
31/Mar/2024

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## Fill buffer

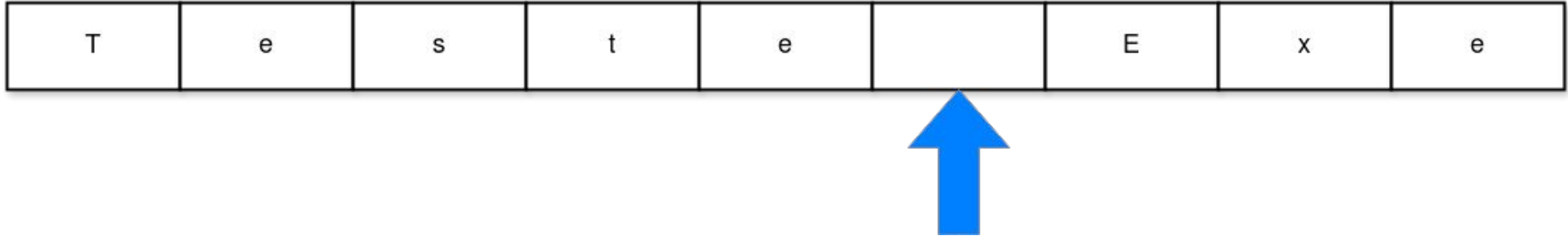
## Remove bytes from unfinished character






## Program 1 - Step 2

Search for last separation character





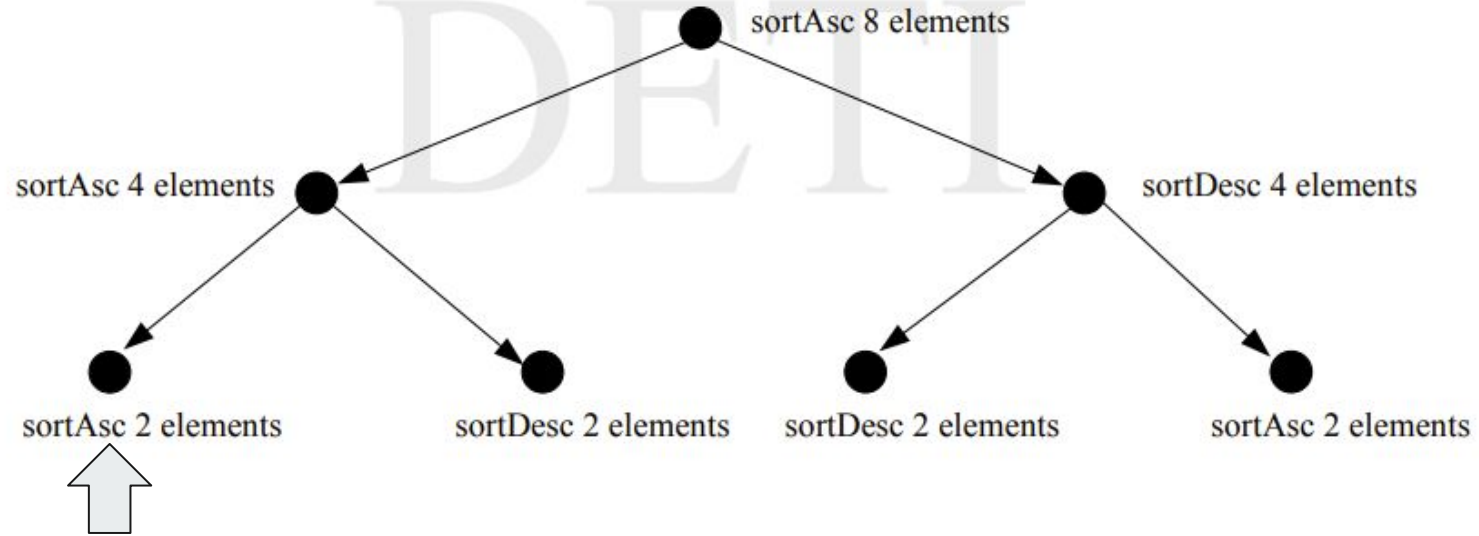
## Program 1 - Timings

Ficheiro\#Threads	1	2	4	8
text0	0.005659	0.000436	0.000551	0.000691
text1	0.005644	0.000428	0.000642	0.000838
text2	0.006615	0.001394	0.001321	0.001559
text3	0.006318	0.000665	0.000962	0.000808
text4	0.006953	0.001186	0.001100	0.001093

Table 1: Timings in seconds with 1,2,4,8 threads for files text0,1,2,3 and 4

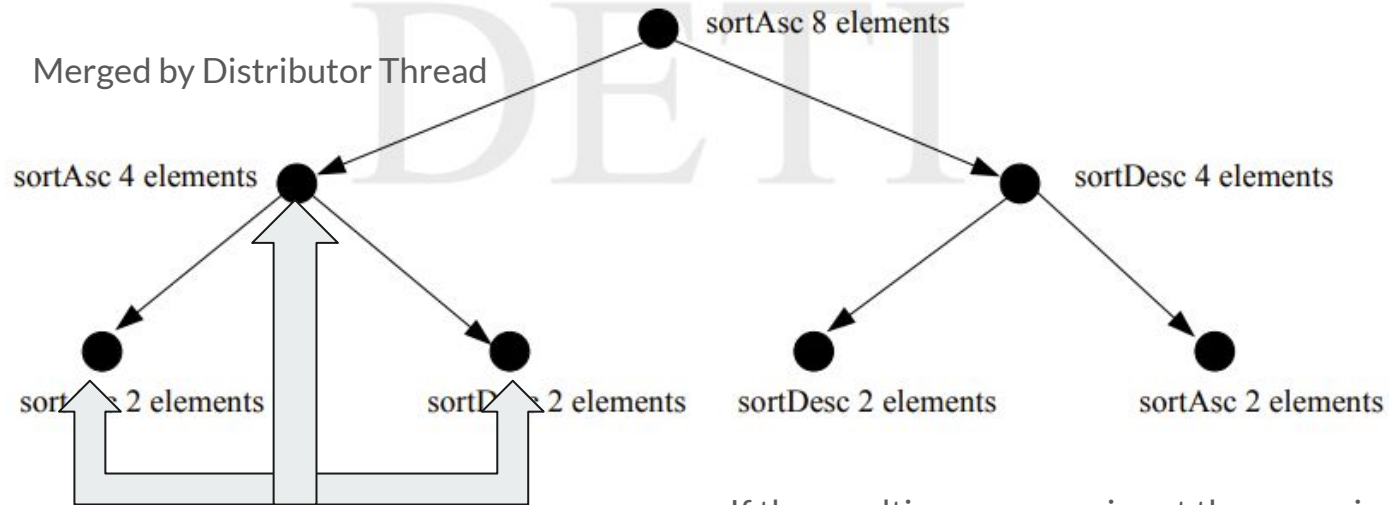
Note: The CPU where the timings where generated only had 4 threads

## Program 2 - Step 1



Sorted by Worker Thread

## Program 2 - Step 2



If the resulting sequence is not the same size as the original we return to step 1



## Program 2 - Timings

Ficheiro\#Threads	1	2	4	8
datSeq32	0.002656	0.003325	0.006532	0.010608
datSeq256K	163.971565	51.392477	52.798703	84.637156

Table 2: Timings in seconds with 1,2,4,8 threads for files datSeq32, datSeq256K

Note: The CPU where the timings where generated only had 4 threads