

Quick Sort Recursivo

É um algoritmo de ordenação elegante que é utilizado com frequência. Este algoritmo utiliza a técnica de dividir para conquistar.

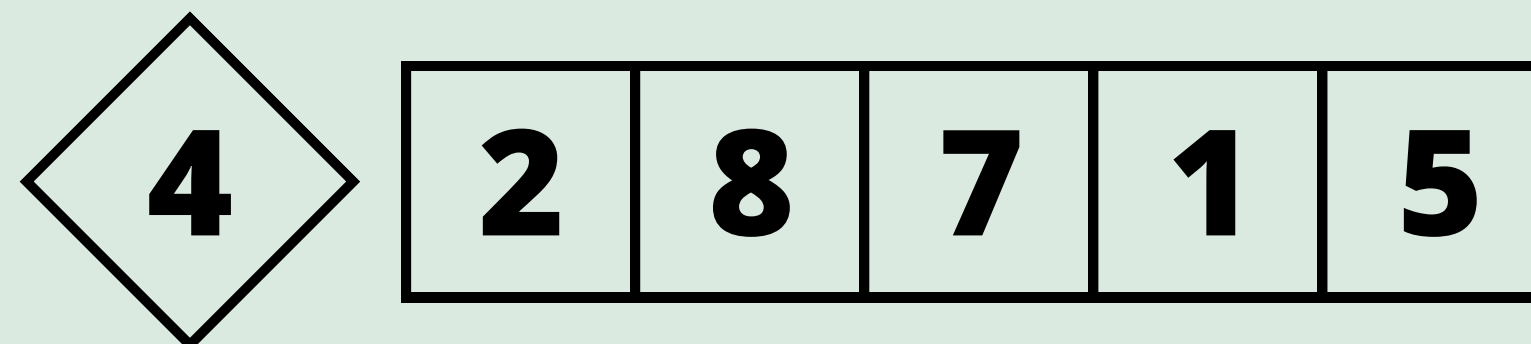


Camilly Vitoria Lopes Da Silva e Rafaela Ramos Farias

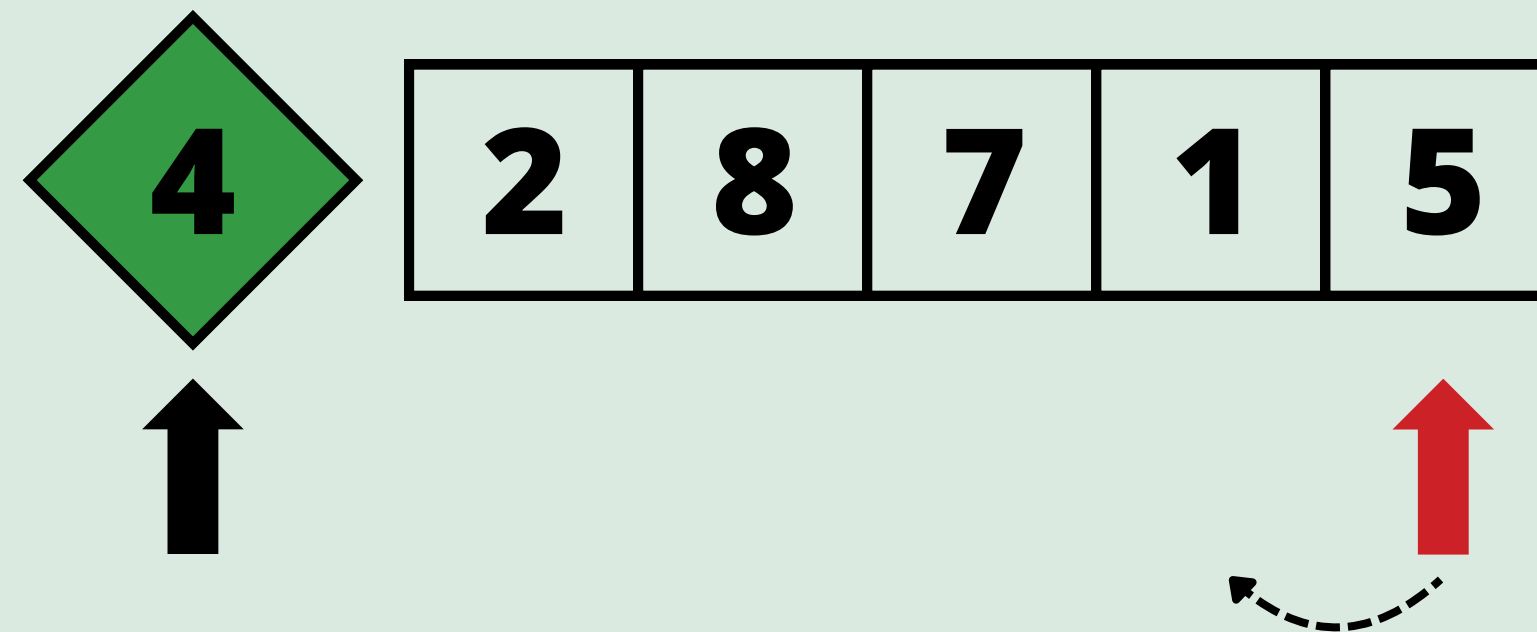
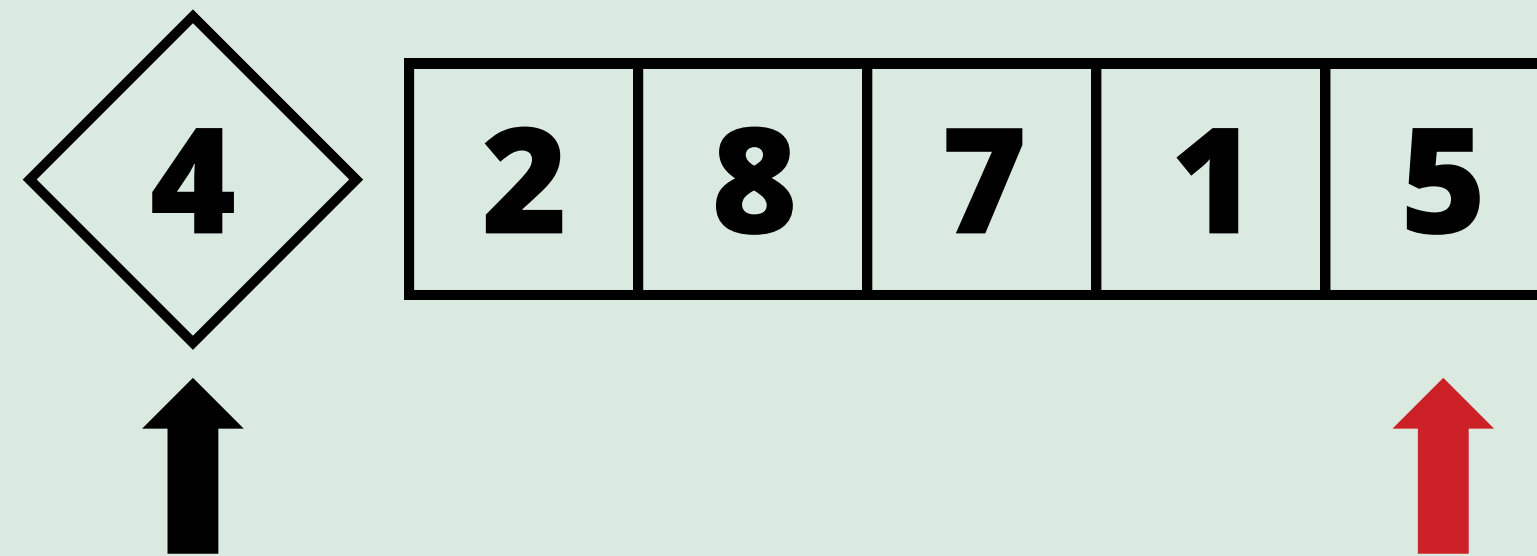
Passos do Quick Sort

4	2	8	7	1	5
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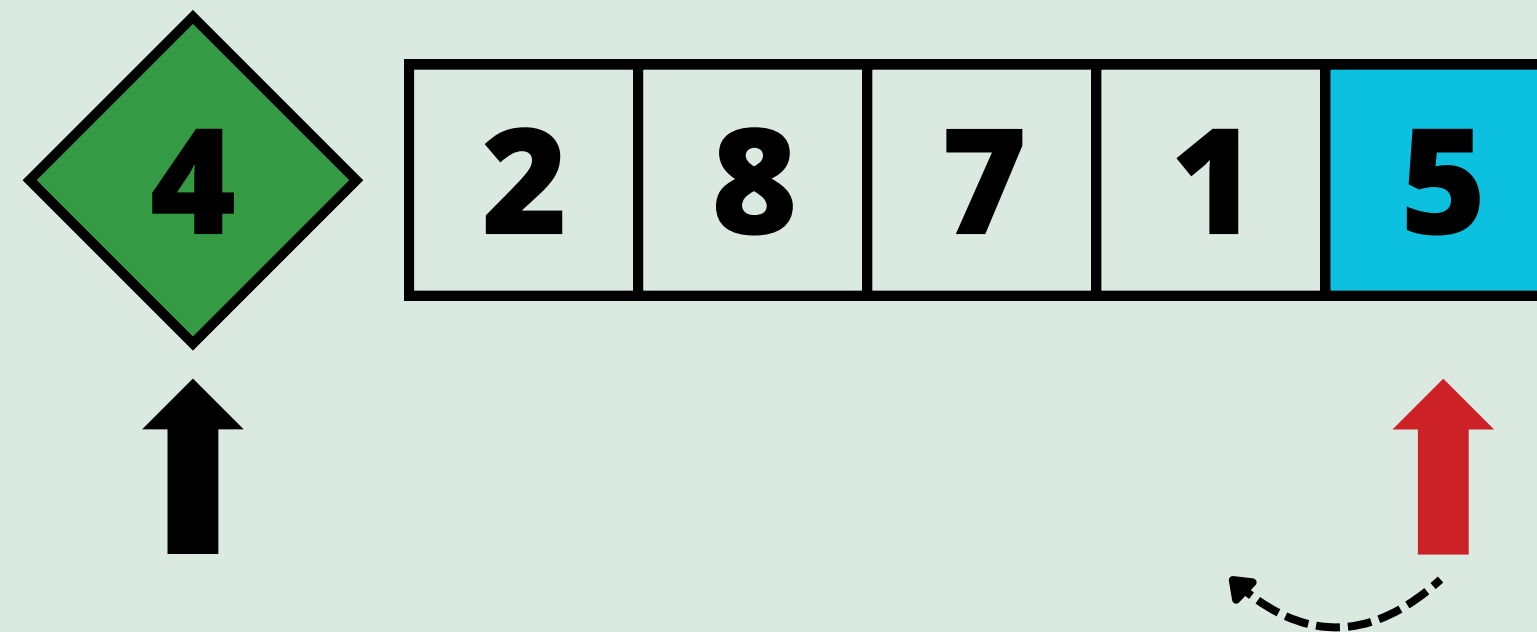
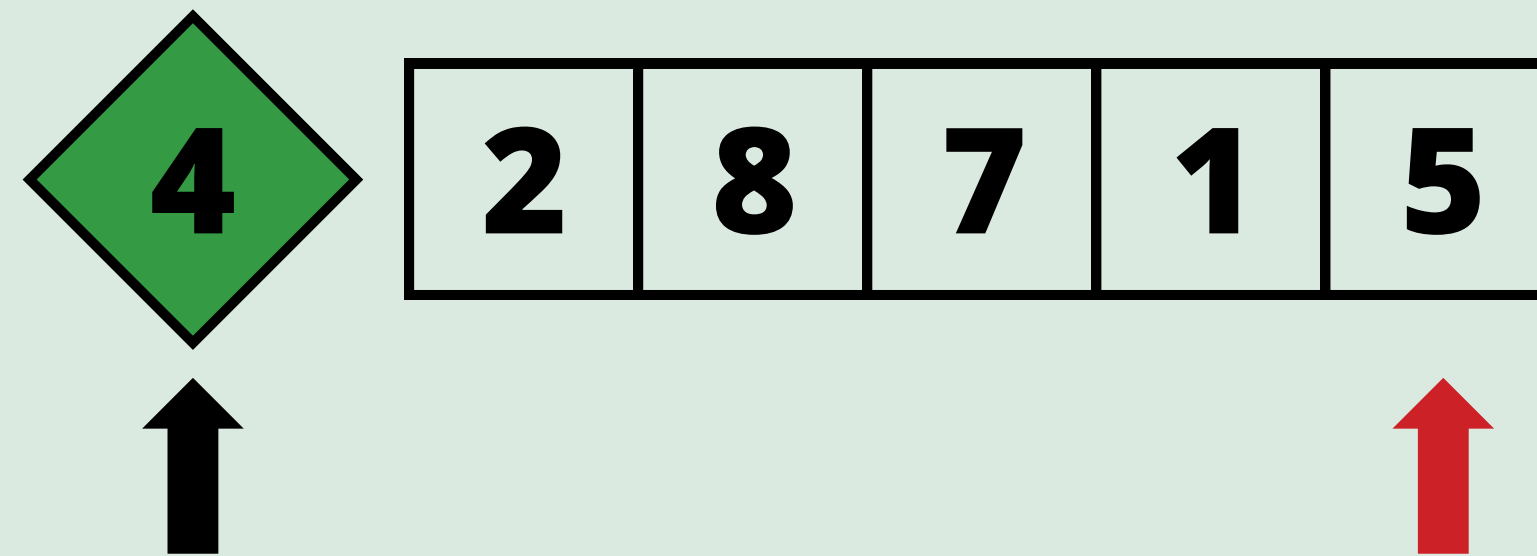
- Escolher um pivô que será usado nas comparações.

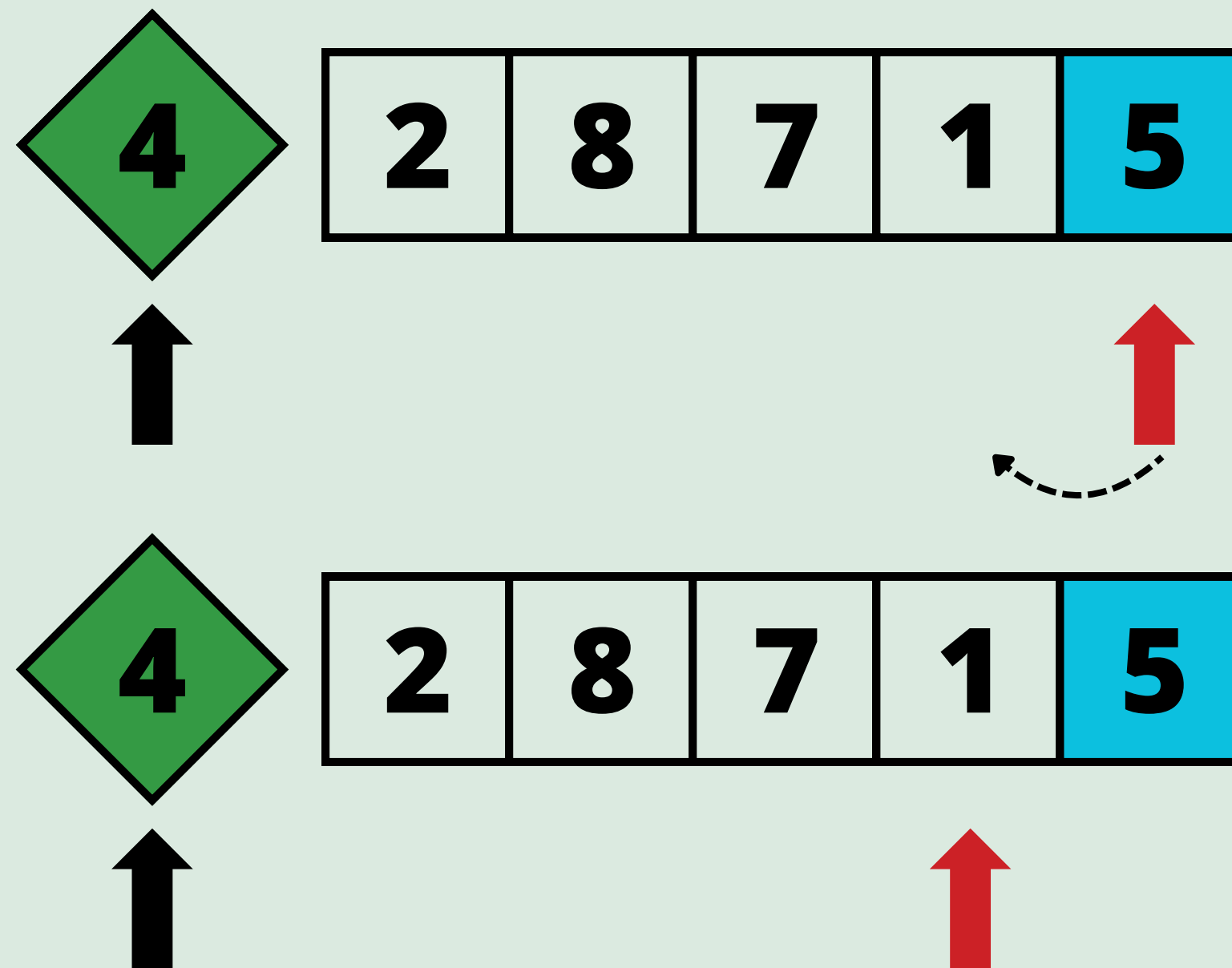


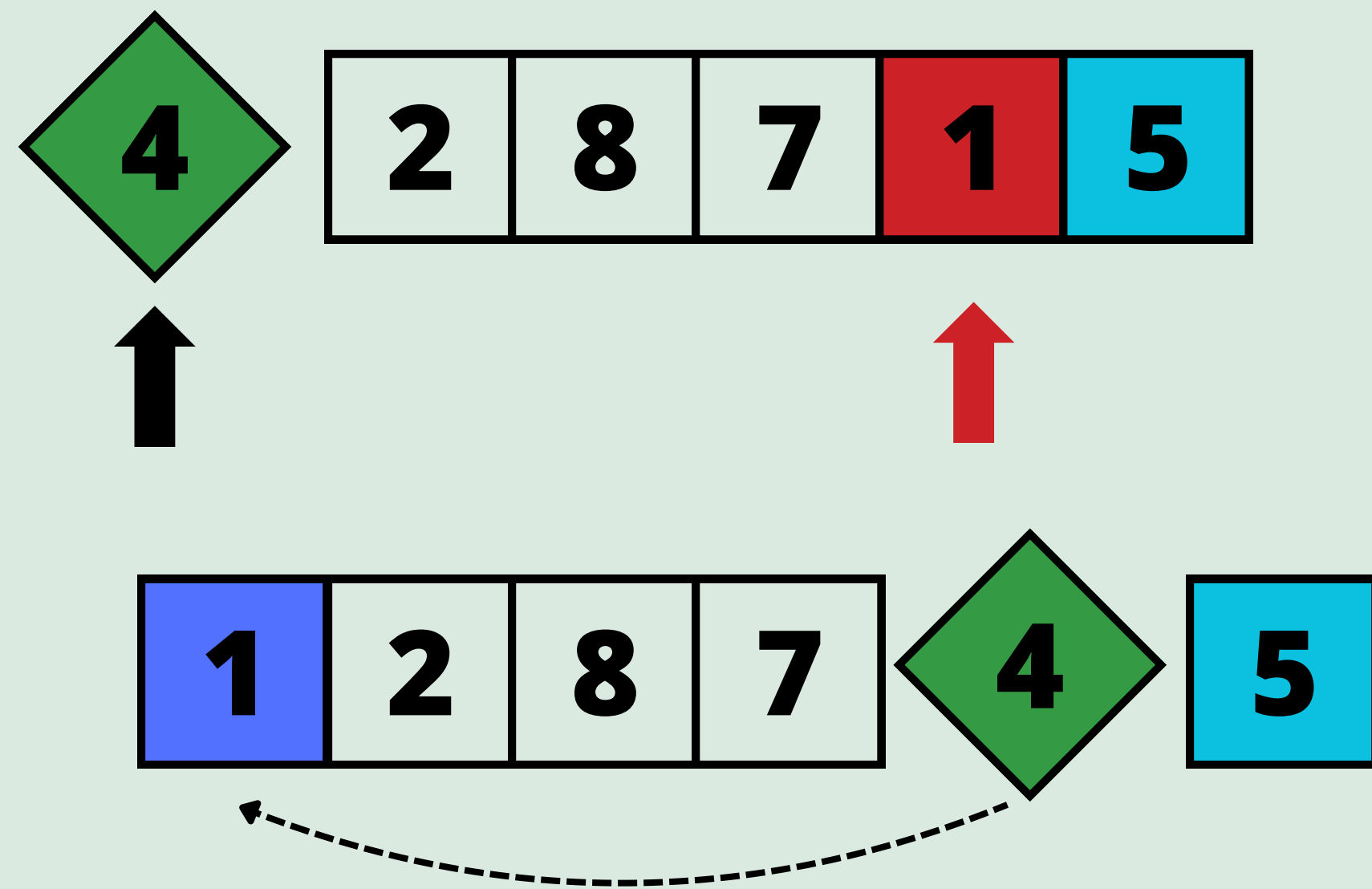
- Percorrer da esquerda para a direita até encontrar um elemento maior que o pivô

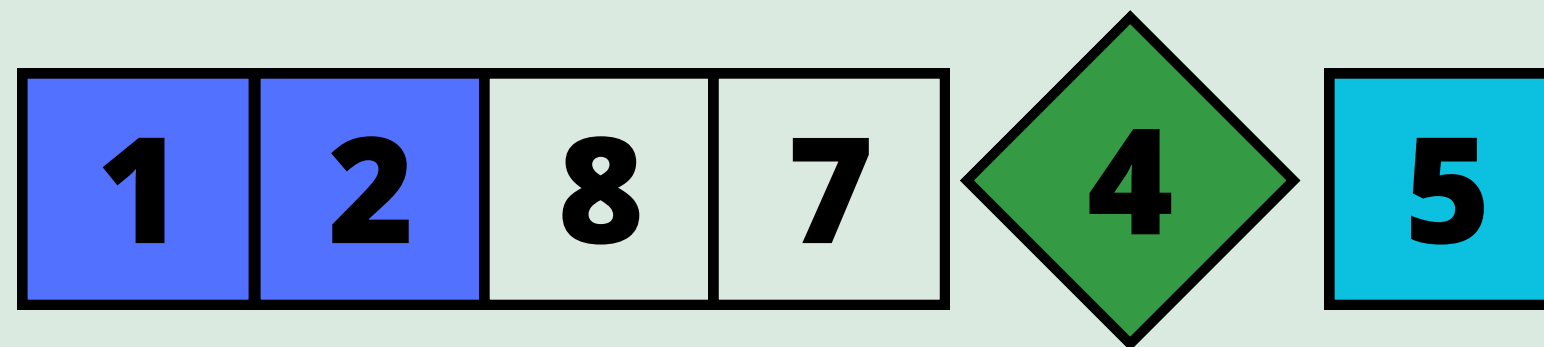
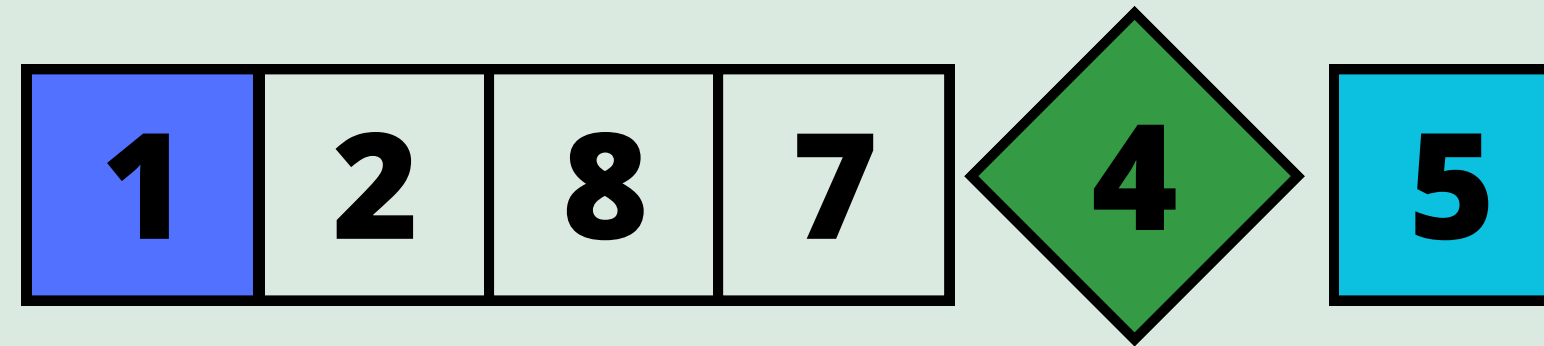


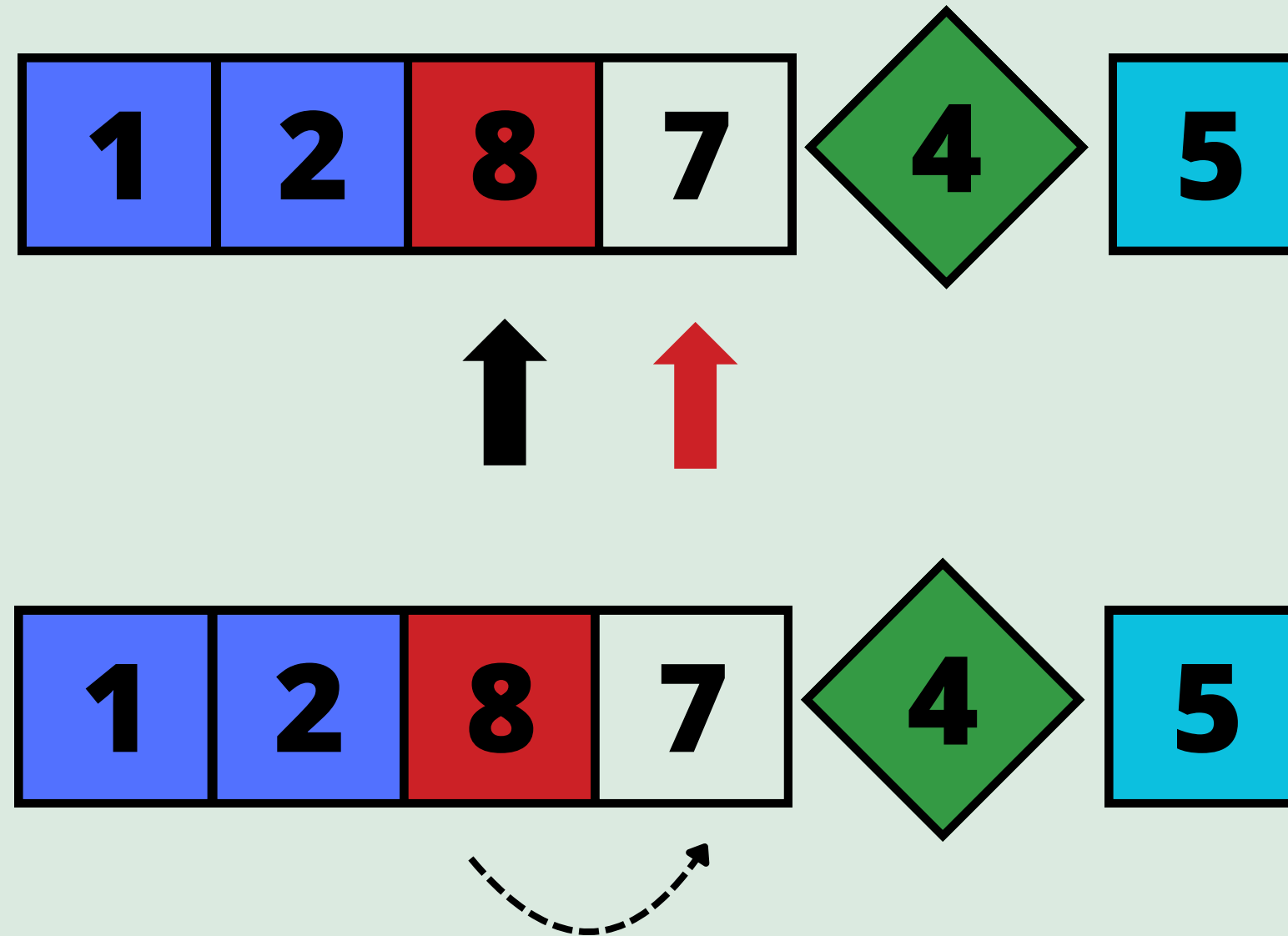
- Percorrer da direita para a esquerda até encontrar um elemento menor que o pivô

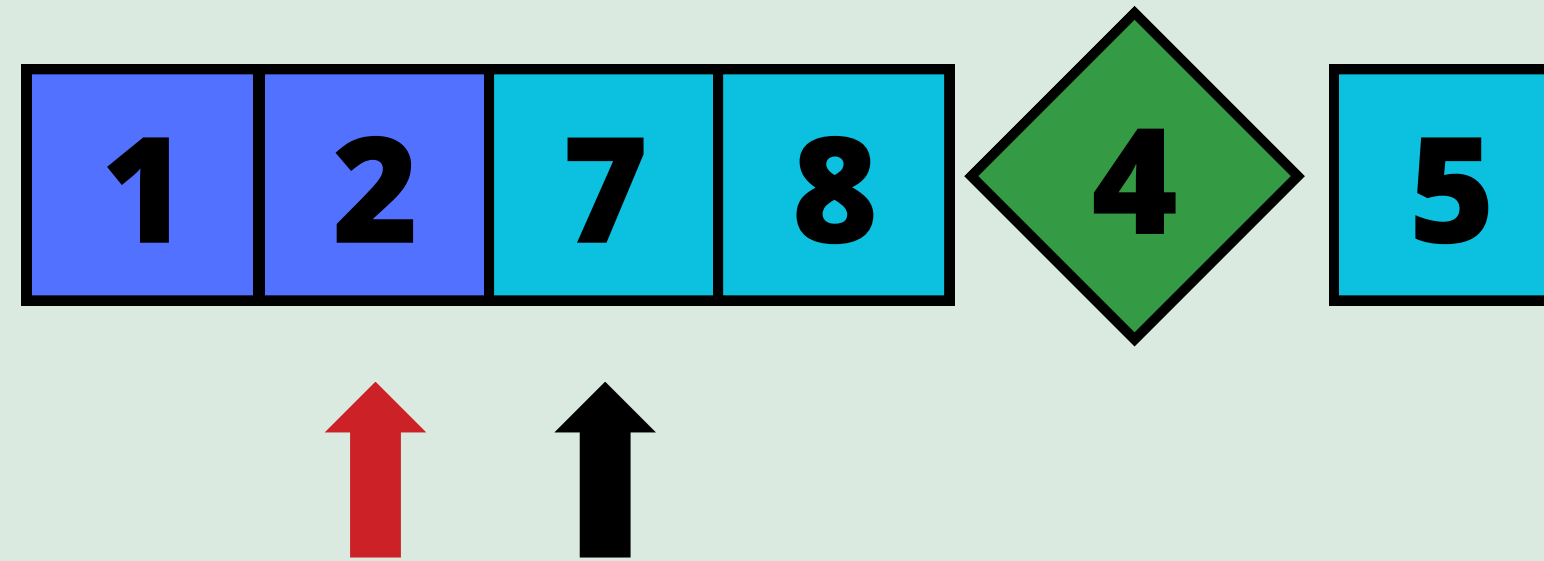




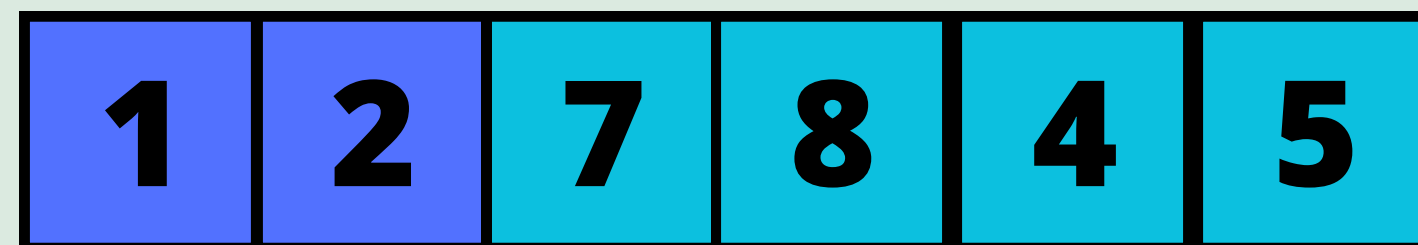




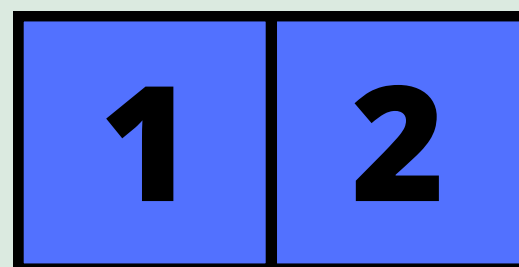




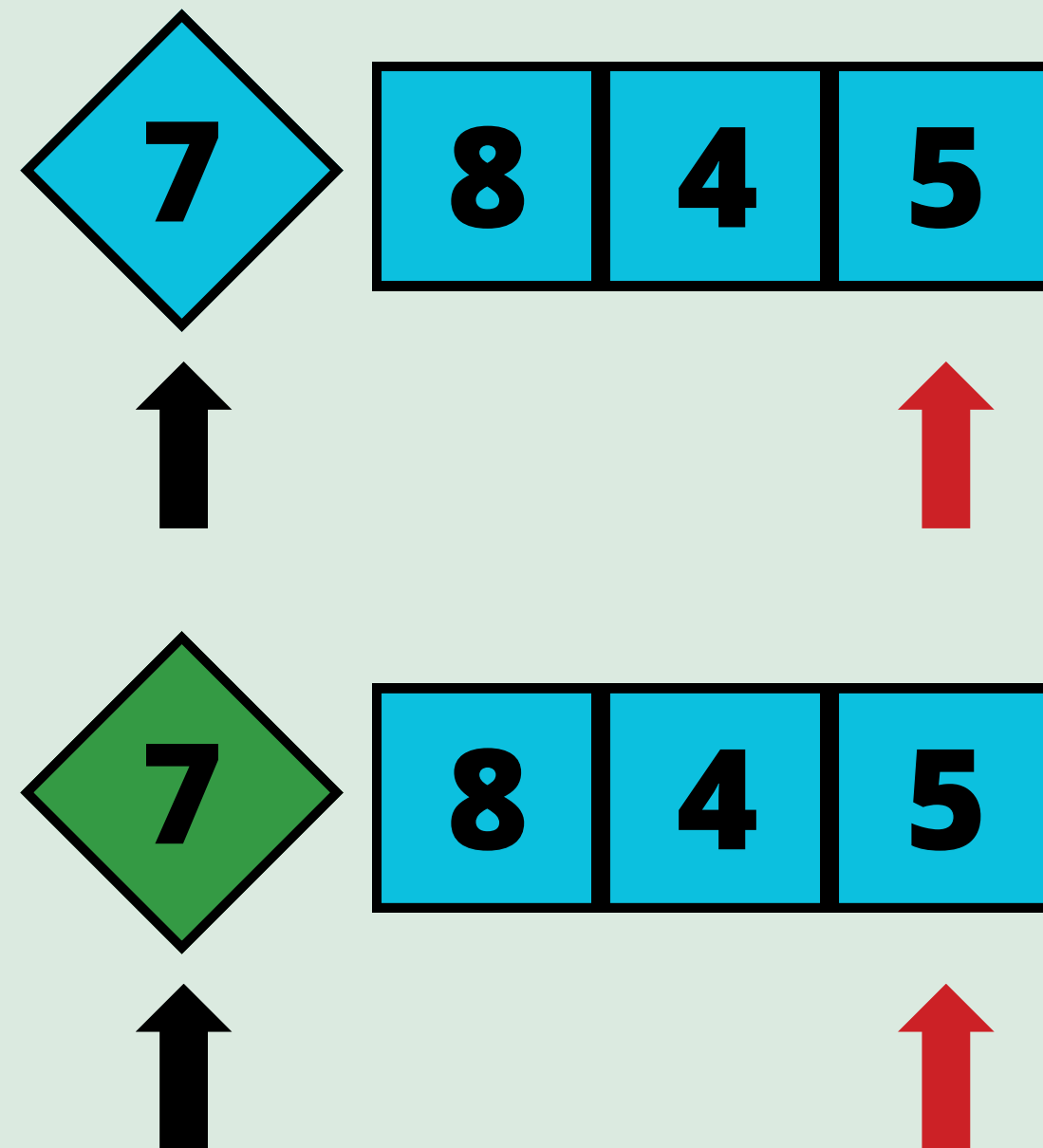
O ponto de parada será quando o ponteiro da direita ultrapassar o ponteiro da esquerda.

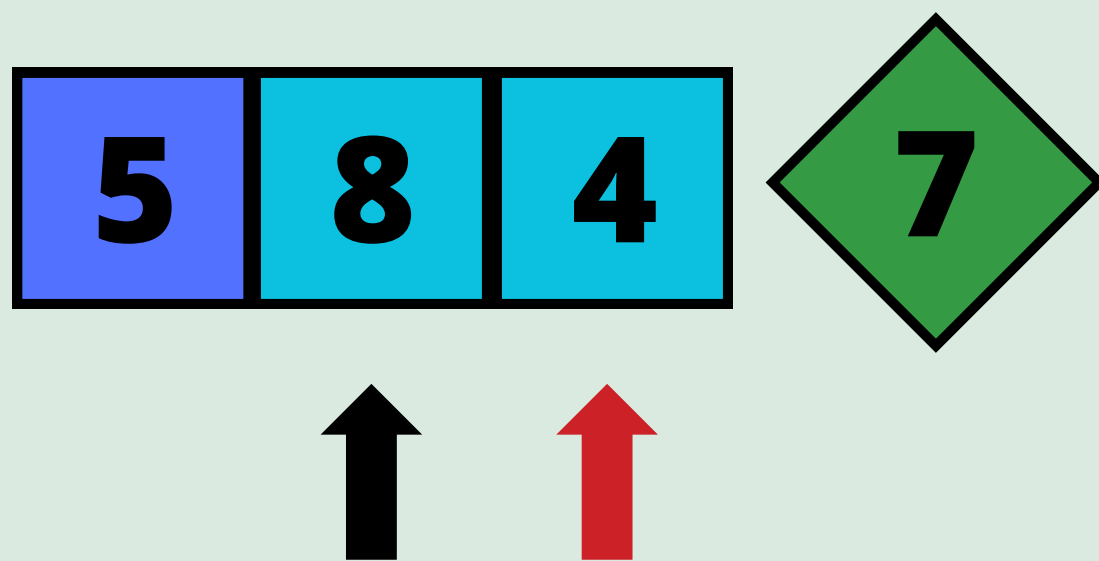
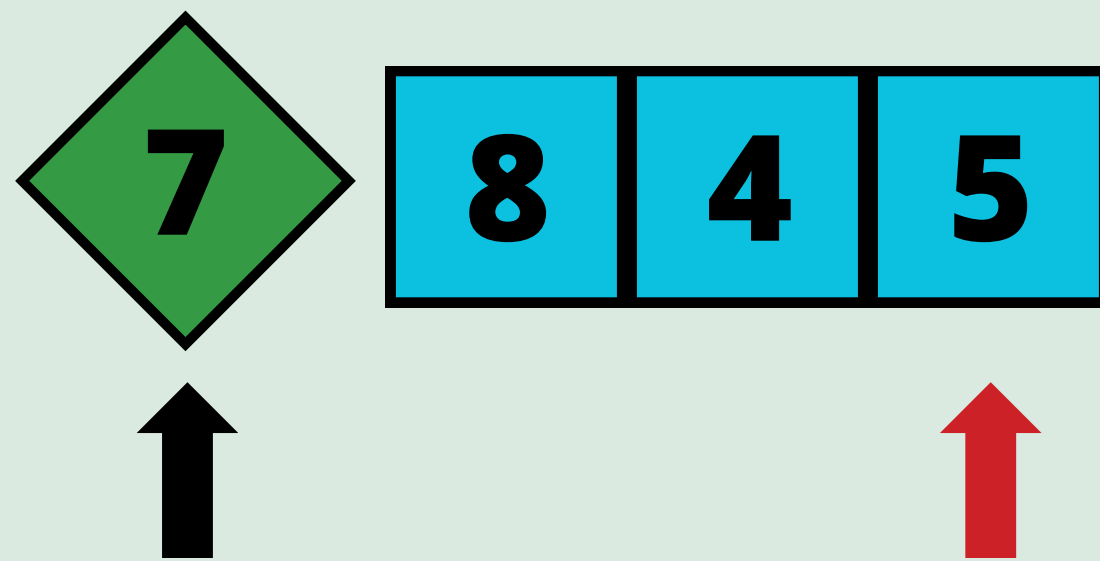


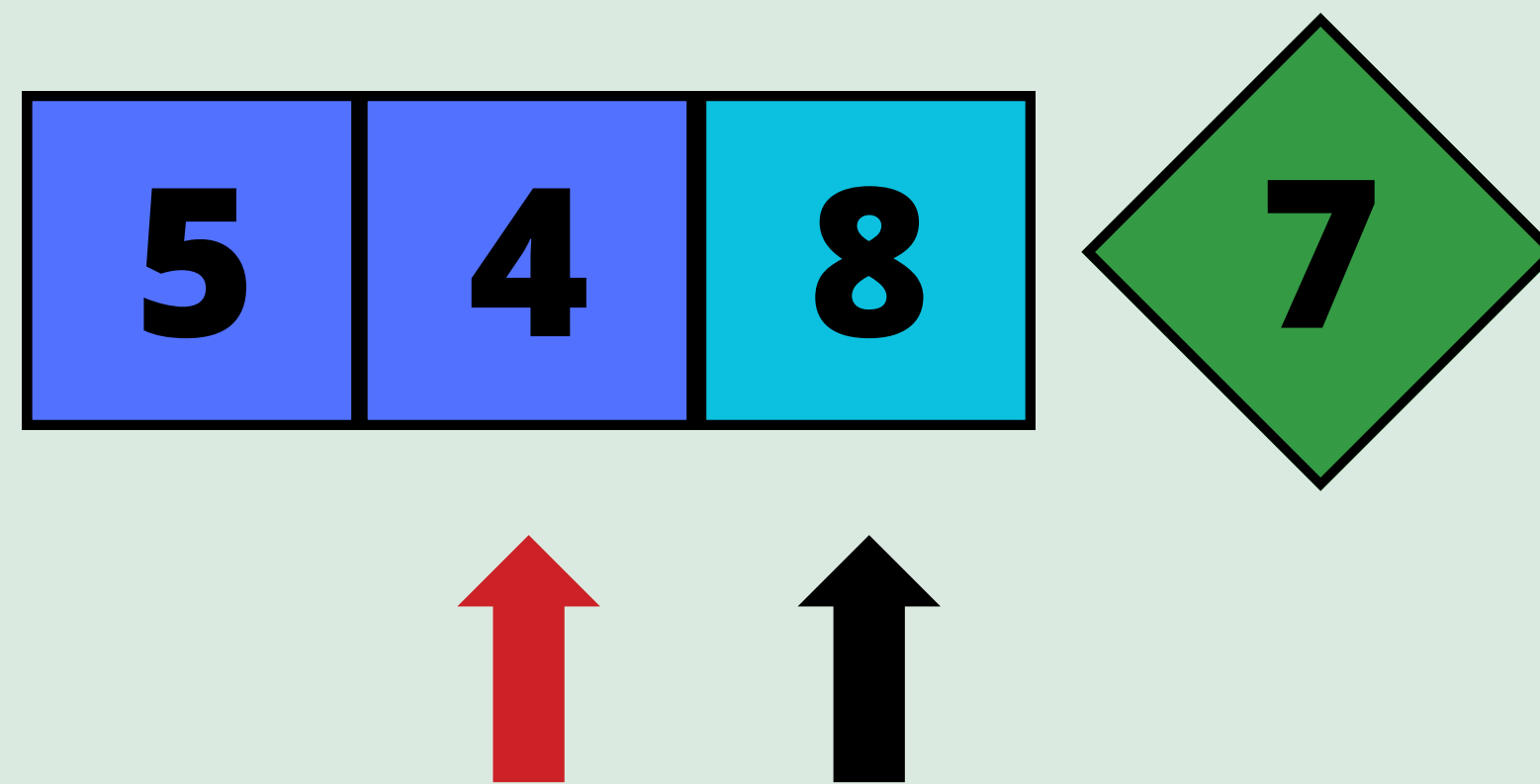
Agora esta dividido, o lado esquerdo com os números menores que nosso pivô, e do lado direito os números maiores ou iguais a ele!

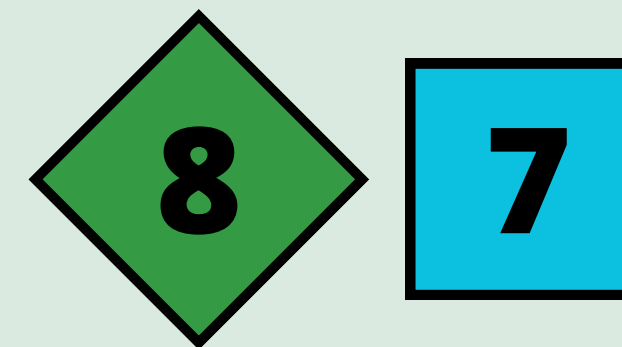
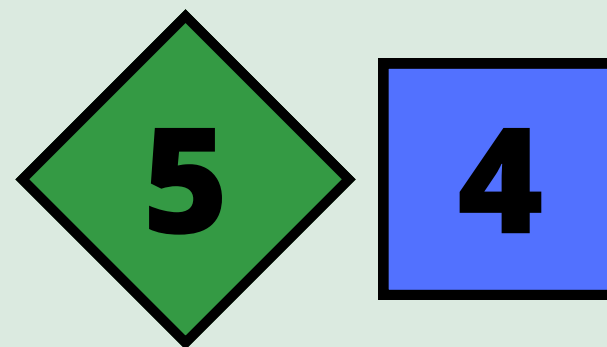
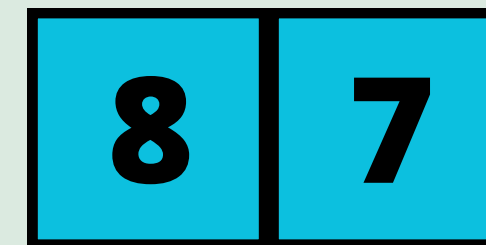
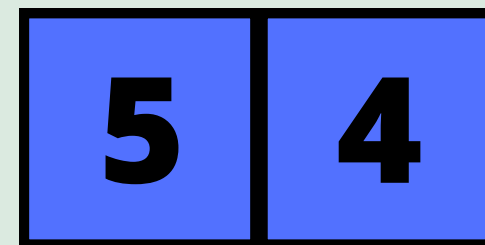
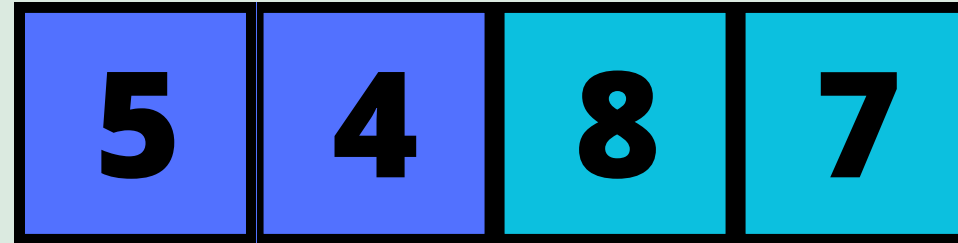


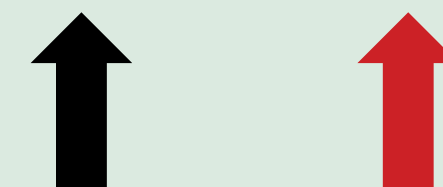
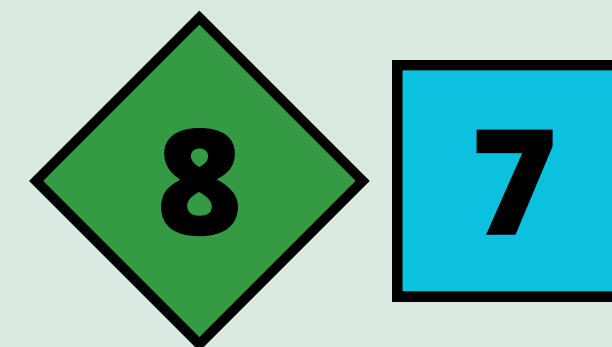
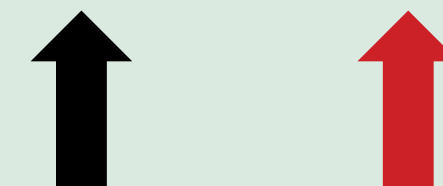
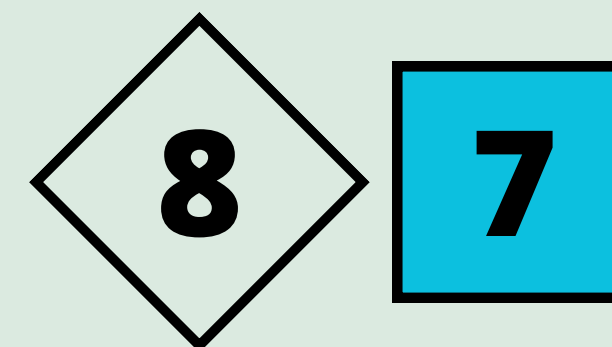
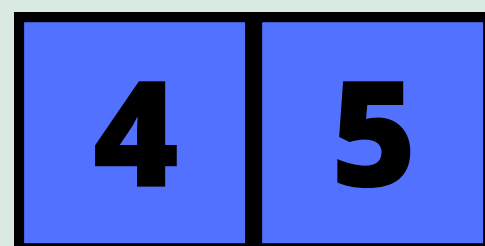
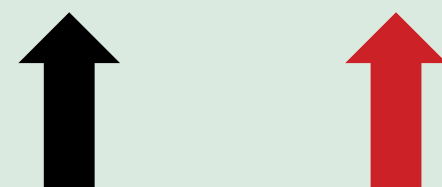
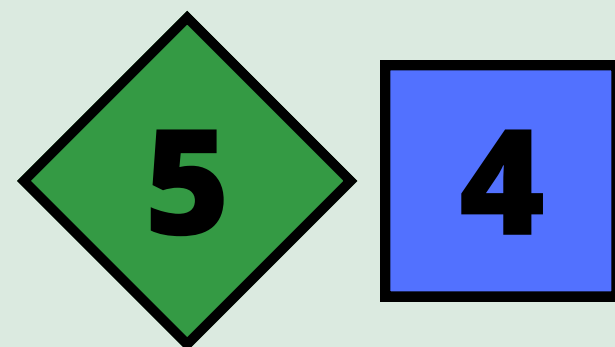
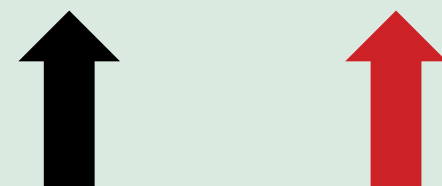
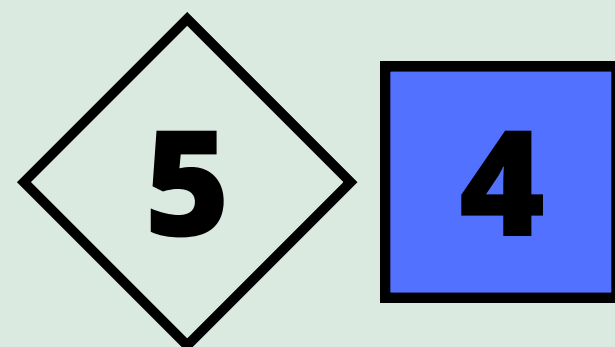
O lado esquerdo já está ordenado!
Vamos ordenar o lado direito!

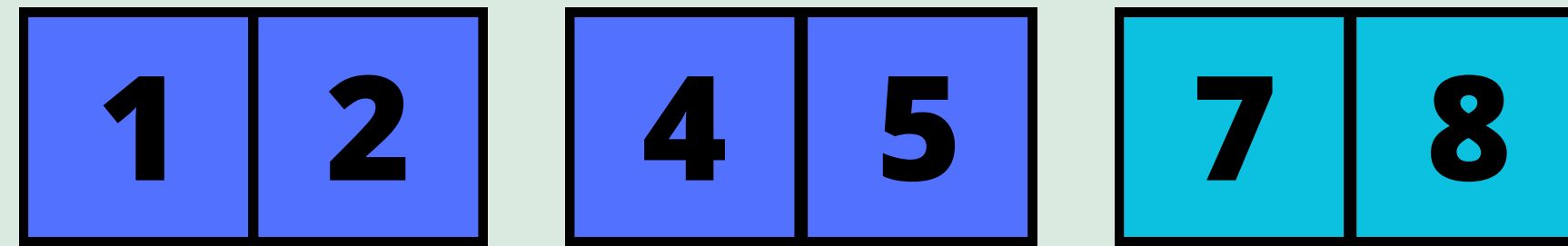












Obrigada!