

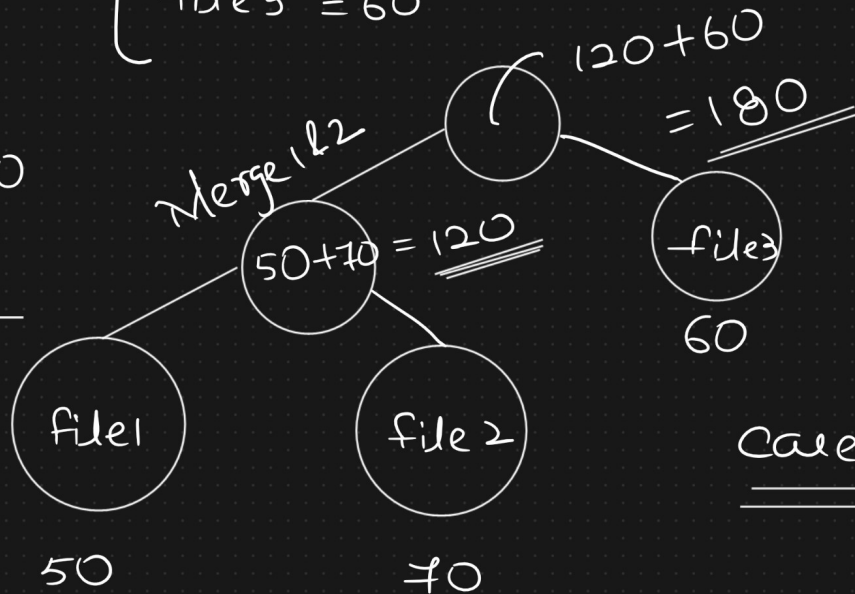
PDF Merger

Optimal Merge

Pattern

$\left\{ \begin{array}{l} \text{file 1} = 50 \\ \text{file 2} = 70 \\ \text{file 3} = 60 \end{array} \right.$

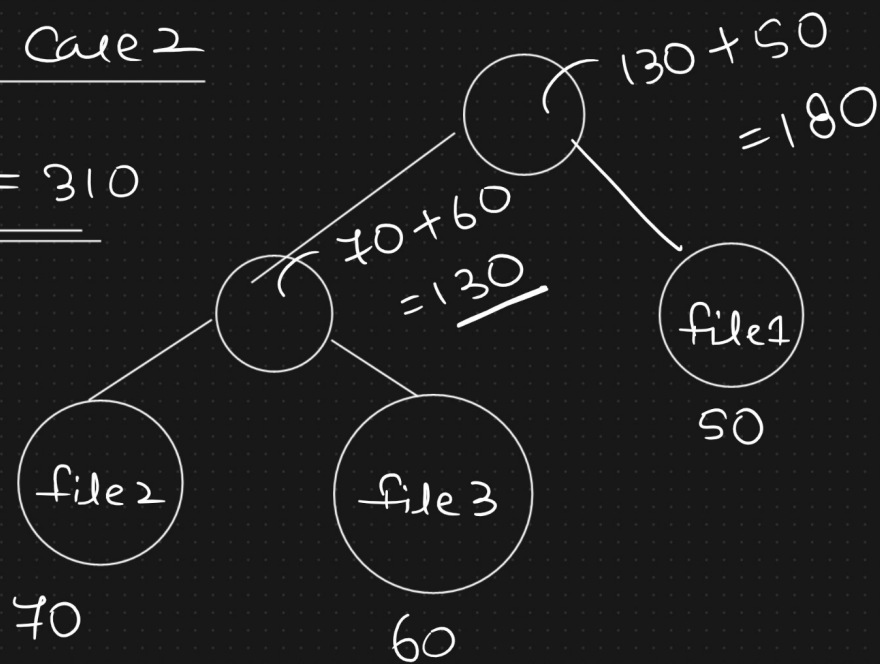
$120 + 180$
 $= 300$



Case 1

Case 2

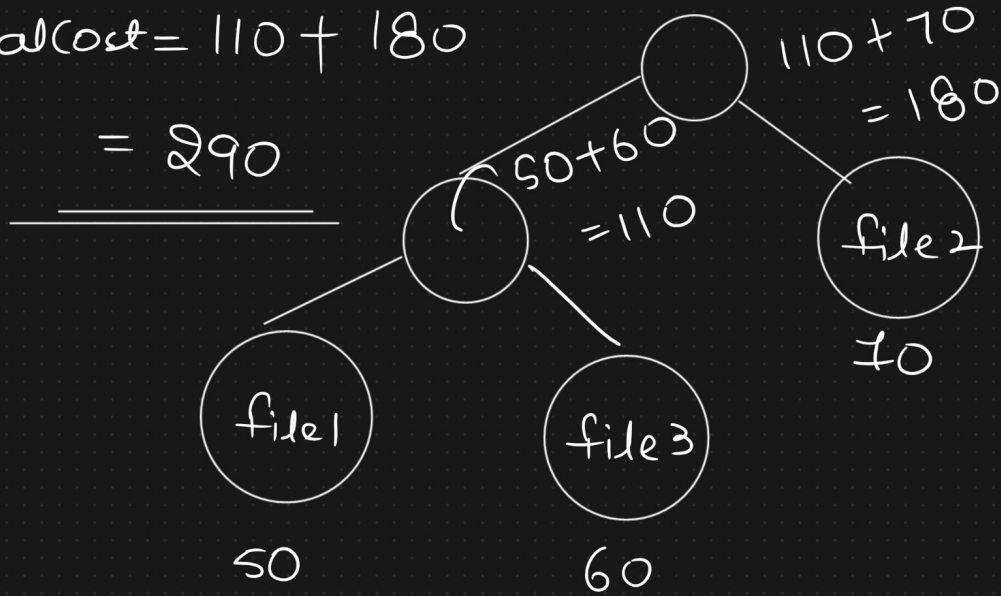
$130 + 180 = 310$



Case 3

$$\text{totalCost} = 110 + 180$$

$$= 290$$



1) Take two min file size & add them

└ merging them

2) Addition └ Re-insertion

└ Repeating the above

Steps

{ 2 Deletion +
1 Insertion

Heap Based Data Structure

└ Minheap