Count of Number of Inversions

$$60 \rightarrow 10, 20, 30, 15$$

$$10 \rightarrow \chi$$

$$15 \longrightarrow X$$

Divide
$$\rightarrow \text{ mid} = i + (j-i)/g \longrightarrow O(i)$$

2) Compline $\rightarrow \text{ T}(\pi/2) + T(\pi/2)$

3) Compline $\rightarrow \text{ mergelost}$

Recurrence Relation

$$T(n) = 2T(n/2) + m$$
Using marker's method/substitution method
$$= 0 \text{ (mlog n)}$$



