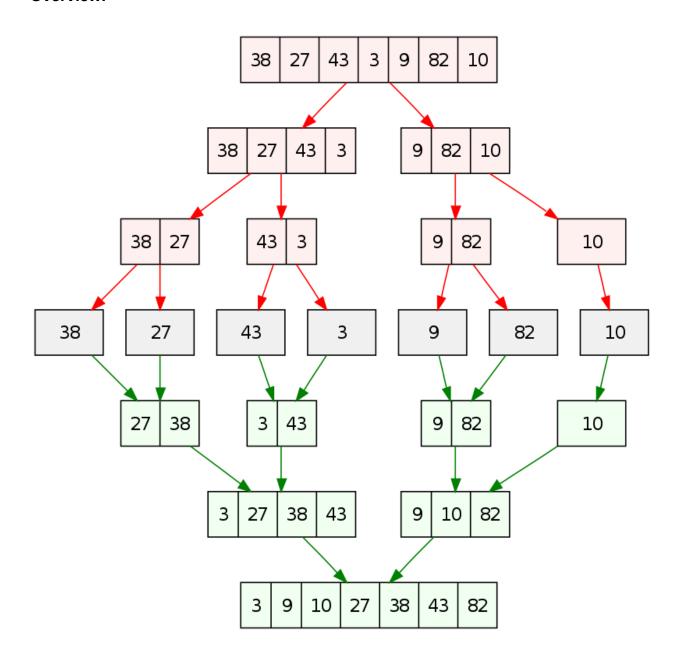
# **Divide and Conquer**

### Overview:



1. **Divide:** This involves dividing the problem into smaller sub-problems.

2. Conquer: Solve sub-problems by calling recursively until solved.

Divide and Conquer 1

- 3. **Combine:** Combine the sub-problems to get the final solution of the whole problem.

## Recurrence Relation (Time Complexity) ✓ Master method|

```
O(1) if n is small

T(n) = f1(n) + 2T(n/2) + f2(n)
```

## **Video Explanation**

https://www.youtube.com/watch?v=2Rr2tW9zvRg

### **Practice Sets:**

53 Maximum Subarray

Divide and Conquer 2