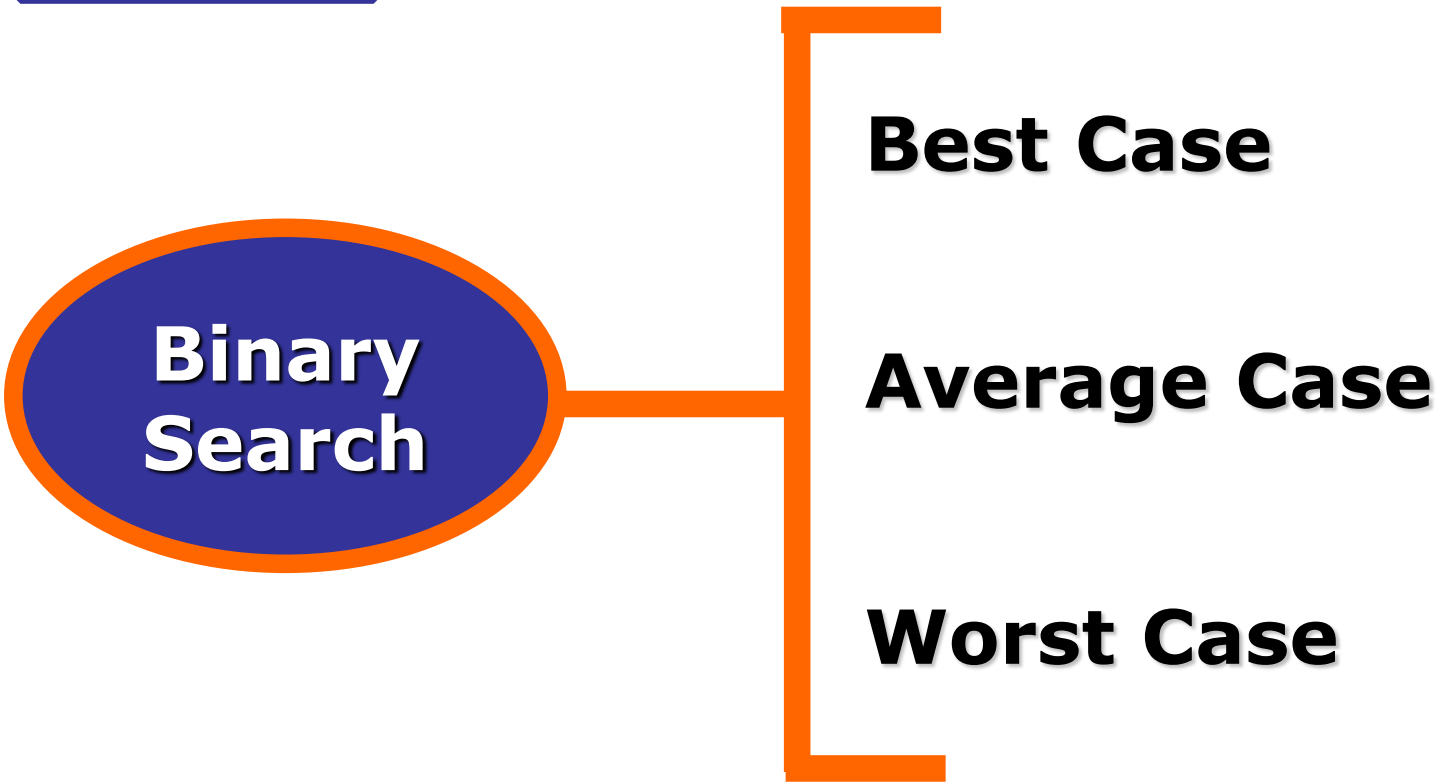
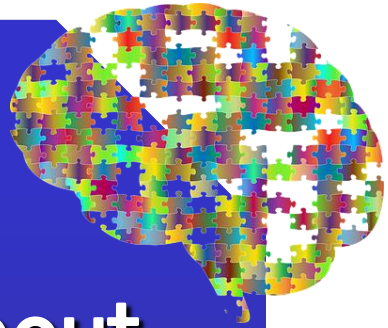
Algorithm

Binary Search

Time Complexity


Binary Search
Best Case
Average Case
Worst Case



Let's think about...
Best Case

Binary Search

Best Case

```
[3, 5, 6, 10, 15, 20]
```

Binary Search

How many comparisons?

```
[3, 5, 6, 10, 15, 20]
```

Best-Case Time Complexity

O(1)

Let's think about... Average & Worst Cases

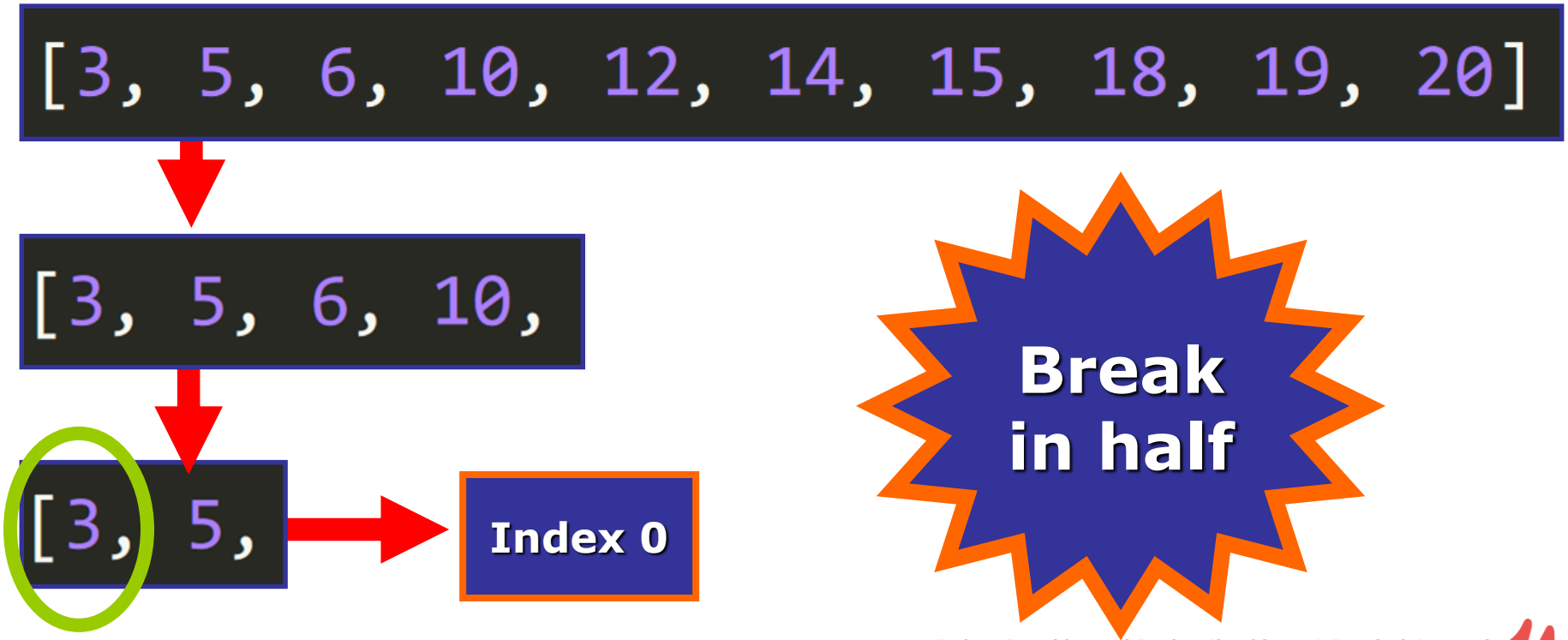
Binary Search

Average Case

Worst Case

```
[3, 5, 6, 10, 15, 20]
```

Binary Search



Binary Search

Average-Case & Worst-Case Time Complexities

O(log(n))

Time to Practice!