

Algorithm

Linear Search

Example





Linear Search Example

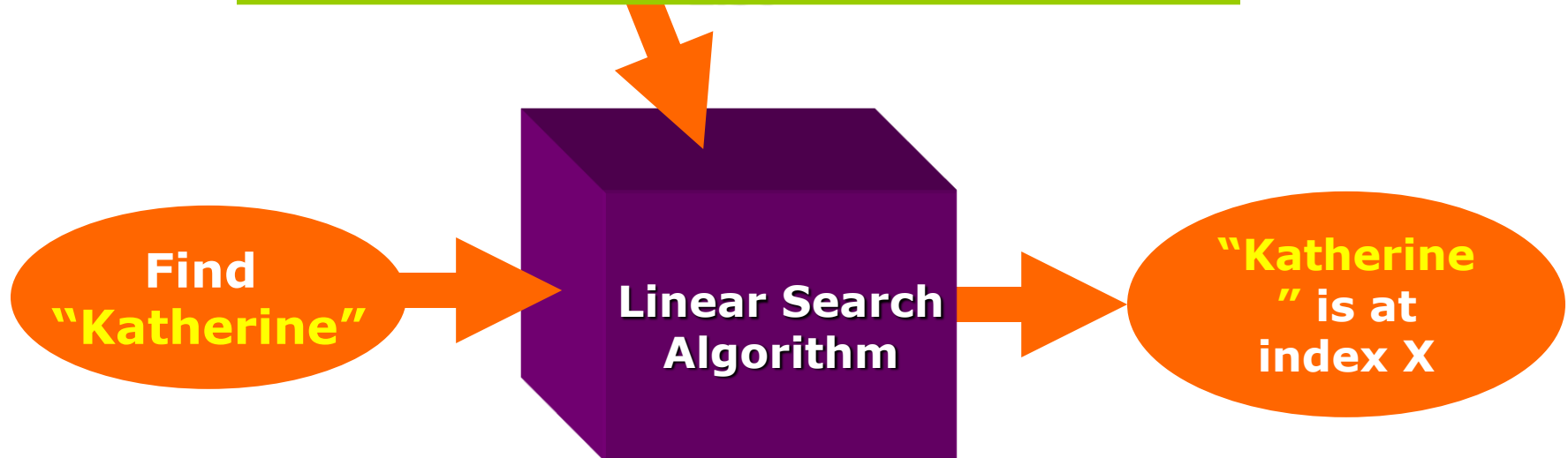
```
["Kelly", "Gino", "Katherine", "James", "Lulu"]
```

```
"Katherine"
```



Linear Search Example

```
["Kelly", "Gino", "Katherine", "James", "Lulu"]
```





Linear Search Example

["Kelly", "Gino", "Katherine", "James", "Lulu"]

"Katherine"

```
def linear_search(main_list, item):  
    for i in range(len(main_list)):  
        if main_list[i] == item:  
            return i  
    return -1
```



Linear Search Example

```
["Kelly", "Gino", "Katherine", "James", "Lulu"]
```

```
Starting Linear Search Algorithm
===== Iteration #0 =====
Current list item: Kelly
Item searched: Katherine
Is the current item equal to the item searched? False
This is not the item
===== Iteration #1 =====
Current list item: Gino
Item searched: Katherine
Is the current item equal to the item searched? False
This is not the item
===== Iteration #2 =====
Current list item: Katherine
Item searched: Katherine
Is the current item equal to the item searched? True
Item found! at index 2
2
```





Time to Practice!

