

# tuple\_manual\_inbuilt\_fun & method

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## Tuple-related functions without using inbuilt functions

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```
def tuple_length(t):  
    count = 0  
    for _ in t:  
        count += 1  
    return count
```

```
def count_occurrences(t, target):  
    count = 0  
    for item in t:  
        if item == target:  
            count += 1  
    return count
```

```
def find_max(t):  
    max_val = t[0]  
    for item in t:  
        if item > max_val:  
            max_val = item  
    return max_val
```

```
def find_min(t):  
    min_val = t[0]  
    for item in t:  
        if item < min_val:  
            min_val = item  
    return min_val
```

```
def tuple_sum(t):  
    total = 0  
    for item in t:  
        total += item  
    return total
```

```
def index_of_element(t, value):  
    index = 0  
    for item in t:  
        if item == value:  
            return index
```

```
    index += 1
    return -1
```

```
def reverse_tuple(t):
    result = ()
    for i in range(tuple_length(t) - 1, -1, -1):
        result += (t[i],)
    return result
```

```
def convert_list_to_tuple(lst):
    result = ()
    for item in lst:
        result += (item,)
    return result
```

```
def convert_tuple_to_list(t):
    result = []
    for item in t:
        result.append(item)
    return result
```

```
def are_tuples_equal(t1, t2):
    if tuple_length(t1) != tuple_length(t2):
        return False
    for i in range(tuple_length(t1)):
        if t1[i] != t2[i]:
            return False
    return True
```