

# Product Documentation

Welcome to the technical documentation for our product.

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# Product Overview

- High-performance
- Scalable architecture
- Easy-to-use API
- Fully documented

# Algorithm Complexity

The sorting algorithm has average complexity:

$$T(n) = O(n \log n)$$

Worst-case complexity:

$$T(n) = O(n^2)$$

# Example API Usage

```
def compute_factorial(n):  
    if n == 0:  
        return 1  
    return n * compute_factorial(n-1)  
  
print(compute_factorial(5))
```