CS208/204: Data Structures & Abstractions Mahidol University International College

## Assignment 5: Performance Characterization

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## **Asymptotics**

## 1.1 Formal:

```
T(n)=n is O(f(n)) iif s.t for some constants c and n\geq n_0 T(n)\leq c\cdot f(n) T(n)=n is \Omega(f(n)) iif s.t for some constants c and n\geq n_0 T(n)\geq c\cdot f(n) T(n)=n is \Theta(f(n)) iif s.t for some constants c and n\geq n_0 T(n) is \Omega(f(n)) and O(f(n))
```