



Algorithms

CS 341



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Preface

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Math review

Big O-notation

there exist

Here the complexity of f is not higher than the complexity of g .

Big Omega-notation

there exist

Here the complexity of f is not lower than the complexity of g .

Big Theta-notation

there exist

same complexity.

little o, omega

for all

$$f(n) \in o(g(n)) \implies O(g(n))$$

Example.

$$\sqrt{n} \in o(n)$$

$$\frac{1}{2}n \notin o(n)$$

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Big Omega-notation 3

Big Theta-notation 3

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