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7 And  $N_0 = 1$   $3n^3 + 20n^2 + 5$   $3n^3 + 20n^2 + 5$  Is  $O(n^3)$   
Need  $C > 0$  And  $N_0 \geq 1$  S.t.  $3n^3 + 20n^2 + 5 \leq C \cdot n^3$   
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Functions Asymptotic Notations ( $O$ ,  $\omega$ ,  $\Theta$ ,  $\Omega$ ,  $\rightarrow$ ) Now  
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Welcome To ECE 250 Algorithms And Data

Structures 2020-07-06 5 17 While Loops Collatz

Conjecture • The Collatz Conjecture Says That If You Start With Any Positive Integer  $N$  And -If  $N$  Is Even, Divide It By Two -If  $N$  Is Odd, Multiply It By Three And Add One • If Ever  $N = 1$ , Then The Sequence Carries On Forever: 1, 4, 2, 1, 4, 2, 1, 4, 2, 1, ... Mar 19th,

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3th, 2024.

Algorithms And Data Structures Wirth N.; Algorithms + Data Structures = Programs; Prentice-Hall, 1976. Main References Used For The Classes Are In Bold.

Algorithms And Data Structures 9 Jan 15th,

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Algorithms! The Material For This Lecture Is Drawn, In

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Quotations! "Every Program Depends On Algorithms

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