Universidad Francisco Marroquin

Algoritmia y Complejidad

Guia de Estudio: parcial 1

(Cormen T.H...[et al.]). Introduction to Algorithms. Third Edition.

Asymptotic notation & analysis

2. Getting Started

- 2.2 Analyzing Algorithms
- 2.2 Order of Growth

3. Growth of Functions

- 3.1 Asymptotic notation

Insertion sort

2. Getting Started

- 2.1 Insertion Sort
- 2.2 Analysis of Insertion Sort

Heapsort

6. Heapsort

- 6.1 Heaps
- 6.2 Maintaining the heap property
- 6.3 Building a heap
- 6.4 The heapsort algorithm

Quicksort

7. Quicksort

- 7.1 Description of quicksort
- 7.2 Performance of quicksort
- 7.4 Analysis of quicksort

Mergesort

2. Getting Started

- 2.3.1 The divide-and-conquer approach

Divide and Conquer

2. Getting Started

- 2.3.1 The divide-and-conquer approach

4. Divide-and-Conquer

- 4.3 The substitution method for solving recurrences
- 4.4 The recursion-tree method for solving recurrences
- 4.5 The master method for solving recurrences

Counting Sort

8. Sorting in Linear Time

- 8.2 Counting Sort

Radix Sort

8. Sorting in Linear Time

- 8.3 Radix Sort

Fecha de parcial: 4 de Septiembre 11:30 am