**Laporan Tugas Analisis Searching**

Cover

Daftar Isi

Bab 1 : Sequential Search dan Binary Search

* 1. Teori Searching dan Kompleksitas Algoritma Searching
     1. Sequential Search
     2. Kompleksitas algoritma Sequential Search
     3. Binary Search
     4. Kompleksitas algoritma Binary Search
  2. Deskripsi Tugas
* Jumlah elemen array : n1 = 10, n2 = 100, n3 = 10000
* Isi array dengan fungsi randomize
* Eksekusi algoritma seq acak, seq acak sentinel, seq urut, binary search dengan :
  + 10 x nilai ketemu
  + 5 x nilai tidak ketemu (nilai yang dicari tidak ada di array)
* Simpulkan dan bandingkan kompleksitas algoritma searching yang telah dijalankan

Bab 2 : Source Program

Bab 3 : Analisis Hasil Eksekusi Program

Jumlah pengulangan pembandingan untuk n1 = 10

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| no | Cari = ... | Seq Acak | Seq Acak Sentinel | Seq Urut | Binary Search |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| .. |  |  |  |  |  |
| 10 |  |  |  |  |  |
|  |  |  |  |  |  |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| ... |  |  |  |  |  |
| 5 |  |  |  |  |  |
| Rata-rata jumlah pembandingan | |  |  |  |  |

Jumlah pengulangan pembandingan untuk n1 = 100

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| no | Cari = ... | Seq Acak | Seq Acak Sentinel | Seq Urut | Binary Search |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| .. |  |  |  |  |  |
| 10 |  |  |  |  |  |
|  |  |  |  |  |  |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| ... |  |  |  |  |  |
| 5 |  |  |  |  |  |
| Rata-rata jumlah pembandingan | |  |  |  |  |

Jumlah pengulangan pembandingan untuk n1 = 10000

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| no | Cari = ... | Seq Acak | Seq Acak Sentinel | Seq Urut | Binary Search |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| .. |  |  |  |  |  |
| 10 |  |  |  |  |  |
|  |  |  |  |  |  |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| ... |  |  |  |  |  |
| 5 |  |  |  |  |  |
| Rata-rata jumlah pembandingan | |  |  |  |  |

Rangkuman Jumlah Pembandingan untuk tiap algoritma

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N | Seq acak | Seq acak sentinel | Seq urut | Binary Search |
| 10 |  |  |  |  |
| 100 |  |  |  |  |
| 10000 |  |  |  |  |

Pertambahan jumlah pembandingan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Peningkatan n | Seq acak | Seq acak sentinel | Seq urut | Binary Search |
| 10 kali |  |  |  |  |
| 100 kali |  |  |  |  |
| Kesimpulan Kompleksitas Algoritma |  |  |  |  |

Daftar Pustaka

Catatan :

1. Halaman harus ada
2. Setiap bagian harus ada narasinya
3. Setiap tabel harus ada namanya (nama tabel di atas tabel)
4. Setiap gambar harus ada namanya (nama gambar di bawah gambar)
5. Setiap tabel dan gambar harus disebutkan di narasi
6. Ketentuan cetak source program :

* Deskripsi program HARUS ADA (nama, deskripsi, IS, FS, dibuat oleh, tanggal)
* INDENTASI harus benar
* Lengkapi dengan komentar2
* Font : COURIER
* Ukuran : maksimum 10
* Spasi : single
* Pakai nomor baris