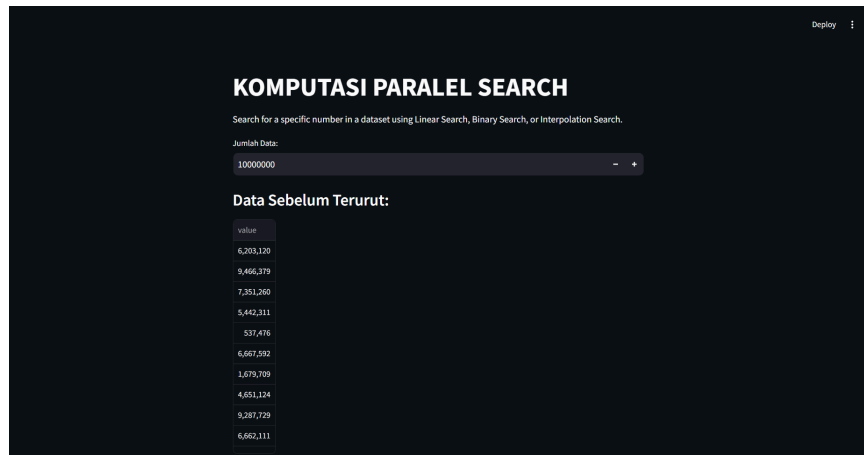


KOMPUTASI PARALEL ALGORITMA SEARCHING APLIKASI LINEAR SEARCH, BINARY SEARCH DAN INTERPOLASI SEARCH

1. Jumlah data 10.000.000



KOMPUTASI PARALEL SEARCH

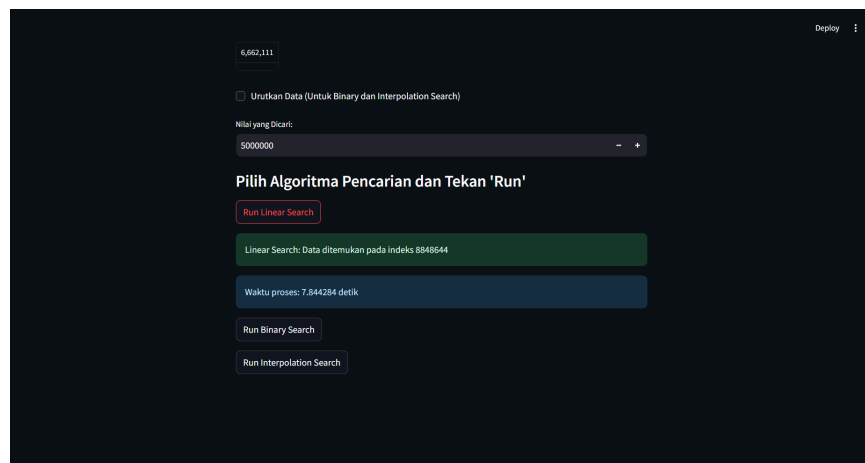
Search for a specific number in a dataset using Linear Search, Binary Search, or Interpolation Search.

Jumlah Data: 10000000

Data Sebelum Terurut:

value
6,203,120
9,466,379
7,351,260
5,442,311
537,476
6,667,592
1,679,709
4,661,124
9,287,729
6,662,111

2. Linear Search (7.844284 detik)



6,662,111

☐ Urutkan Data (Untuk Binary dan Interpolation Search)

Nilai yang Dicari: 5000000

Pilih Algoritma Pencarian dan Tekan 'Run'

Run Linear Search

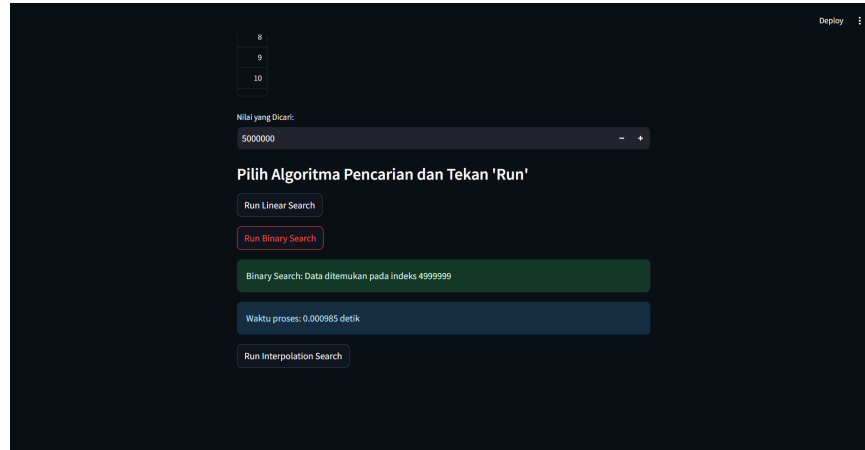
Linear Search: Data ditemukan pada indeks 8848644

Waktu proses: 7.844284 detik

Run Binary Search

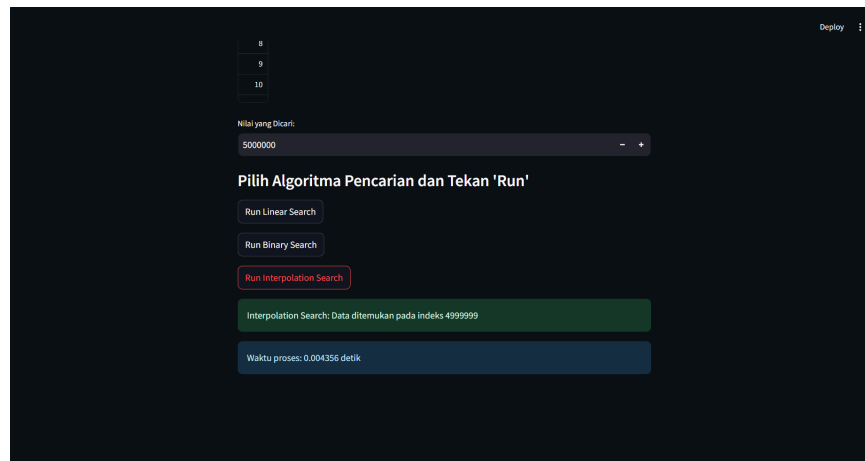
Run Interpolation Search

3. Binary Search (0.000985 detik)



The screenshot shows a web application interface for searching. At the top right is a 'Deploy' button. On the left, there is a vertical list of numbers 8, 9, and 10. Below this is a text input field labeled 'Nilai yang Dicari:' containing the value '5000000'. To the right of the input field are minus and plus icons. Below the input field is the instruction 'Pilih Algoritma Pencarian dan Tekan 'Run''. There are three buttons: 'Run Linear Search', 'Run Binary Search' (which is highlighted with a red border), and 'Run Interpolation Search'. Below these buttons, a green status bar displays 'Binary Search: Data ditemukan pada indeks 4999999'. Below that, a dark blue bar shows 'Waktu proses: 0.000985 detik'. At the bottom is a button labeled 'Run Interpolation Search'.

4. Interpolation Search (0.004356 detik)



The screenshot shows the same web application interface as above, but with the 'Run Interpolation Search' button highlighted with a red border. The green status bar now displays 'Interpolation Search: Data ditemukan pada indeks 4999999'. The dark blue bar shows 'Waktu proses: 0.004356 detik'. The other elements, including the 'Deploy' button, the list of numbers (8, 9, 10), the search input field with '5000000', and the other search buttons, remain the same.