

# Linear Search

## in C

### 01. Definisi

Pencarian Linear Memeriksa setiap elemen dari daftar array data sampai ditemukan kecocokan

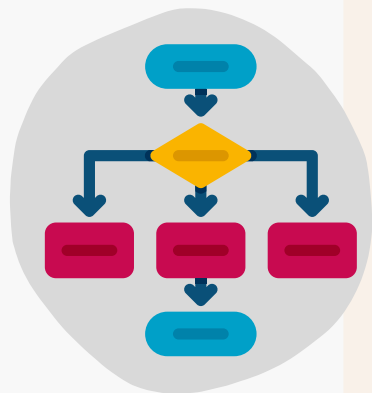


### Algoritma

### 02.

```

1. i <- 1
2. ketemu <- 0
3.
4. while (ketemu == 0) and (i < N) do
5.   if (Data[i] == key) then
6.     ketemu <- 1
7.   else
8.     i <- i + 1
9. endwhile
10.
11. if (ketemu) then
12.   output ( i , " is index of data")
13. else
14.   output ("data not found")
15. endif
  
```



### 03. Simulasi Pencarian Linier

Instruksi: Carilah orang dengan nama "Anton"!

Anton



mhs[0] mhs[1] mhs[2] mhs[3] mhs[4] mhs[5] mhs[6] mhs[7]

Start



|                   |                   |                   |                   |                   |                   |                   |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| mhs[0] = "Anton"? | mhs[1] = "Anton"? | mhs[2] = "Anton"? | mhs[3] = "Anton"? | mhs[4] = "Anton"? | mhs[5] = "Anton"? | mhs[6] = "Anton"? |
| NO                | NO                | NO                | NO                | NO                | NO                | YES               |
| Lanjut            | Lanjut            | Lanjut            | Lanjut            | Lanjut            | Lanjut            | STOP              |



Anton ditemukan!

Anton ditemukan pada Array mhs indeks ke-6