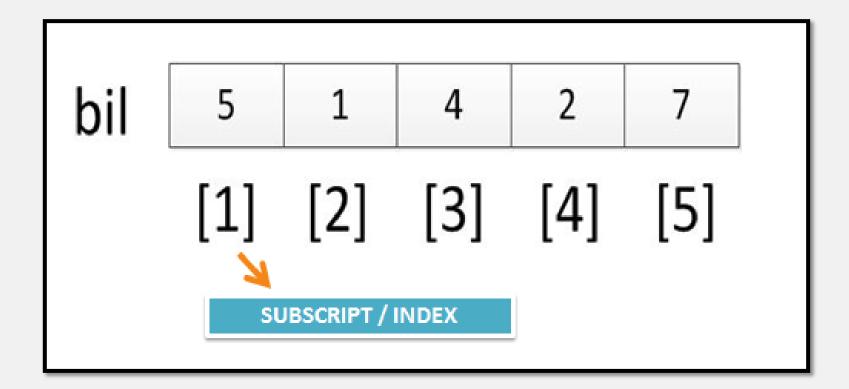# Static Array

Adam M.B.

DESCRIPTION

Description

Collection of data which have same data

type that can be accessed with their index

In Memory

DECLARATION

Declaration as Variable

Kamus:

  NamaArray : array [1..MaxSize] of TipeData

Contoh:

Kamus:

  bil : array [1..5] of integer

  NamaDosen : array [1..20] of string

  Pecahan : array [1..100] of real

Declaration as User-Defined

```
Kamus:

  type

    NamaArray = array [1..MaxSize] of TipeData

  NamaVariabel_1:NamaArray

  NamaVariabel_2:NamaArray
```

Declaration as Constant

```
Kamus:

  const

    MaxSize = VALUE

  type

    NamaArray = array [1..MaxSize] of TipeData

  NamaVariabel_1:NamaArray

  NamaVariabel_2:NamaArray
```

Declaration as Record

```
Kamus:
   Const
      maks_array = 5
   Type
      DMahasiswa = record
    < nim,nama:string,
      nilai    :integer,
      indeks   :char >
      endrecord
      mahasiswa=array[1..maks_array] of DMahasiswa

   mhs:mahasiswa
```

OPERATION

- Creation
- Traversal
- Searching
- Sorting
- Destroy

ADDITIONAL SORT

- Merge sort

- Insertion sort

- Radix sort

- Quick sort

- Shell sort

TUGAS

MERGE SORT

A1				A2				B					
1	13	24		2	15	27	$1 < 2 \rightarrow 1$	1					
1	13	24		2	15	27	$2 < 13 \rightarrow 2$	1	2				
1	13	24		2	15	27	$13 < 15 \rightarrow 13$	1	2	13			
1	13	24		2	15	27	$15 < 24 \rightarrow 15$	1	2	13	15		
1	13	24		2	15	27	$24 < 27 \rightarrow 24$	1	2	13	15	24	
1	13	24		2	15	27	$27 \rightarrow$	1	2	13	15	24	27

THANK YOU

GRACIAS

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