

User Defined data Types : → (Structures & Unions)

<p><u>Struct</u> Employee {</p> <p>char name [20]; v1</p> <p>int age; v2</p> <p>int salary; v3</p> <p>}; size = $\sum [v1+v2+v3]$</p> <p>28 bytes</p>	<p>Employee</p> <p>name char[20]</p> <p>age int 4</p> <p>salary int 4</p>	<p><u>union</u> Employee {</p> <p>char name [20]; v1</p> <p>int age; v2</p> <p>int salary; v3</p> <p>}; size = largest(v1, v2, v3)</p> <p>20 bytes</p>
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What is the largest size of a pointer = 8 bytes.

Structure

M1 → V1

M2 → V2

M3 → V3

All can be accessed simultaneously

*(Assign & Display)

largest (M) → V1, V2, V3

Common

So, we can only access any one at a time.

(Scaler) 5:00 to 8:00 *#06#

(System Design) (Schema Design)

← Item 1 (Online Store) → Item 2

<p>(Shirt)</p> <p>300 price int</p> <p>M size char[10]</p> <p>R color char[10]</p> <p>zara brand char[20]</p>	<p>[Memory Efficient]</p>	<p>(Book)</p> <p>499 price int</p> <p>Fiction genre char[20]</p> <p>ebook design char[20]</p> <p>10203 int isbn</p>
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Struct Store {

2 items

}

(Union of Structures)

Strings or Character Arrays:

A string is a sequence of characters: It can contain: →

- ✓ (i) Alphabets
- ✓ (ii) Numbers
- ✓ (iii) Special Characters

✓ (iv) Whitespaces

scanf()

fgets

gets

#include <string.h>

Python : 1991

Java : 1995

James Gosling

Denmark

Bjarne Stroustrup

C + C++ = Java

James Gosling

C + SIMULA = C++

Rust

.c → .o → .exe

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