

DMA



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Agenda

- **SMA**
- **DMA**
- **new**
- **delete**
- **Example**

SMA

➤ Static Memory Allocation (SMA)

- `int x;`
- `float avg;`
- `int *ptr;`
- `char arr[20];`
- `Complex c1;`
- `Date d1;`
- `Book b1;`

DMA


Dynamic Memory Allocation (DMA)

new

delete

new

- new is a keyword
- Create a dynamically variable or array using new keyword.

- `int *x = new int;`
 - `int *arr = new int[5];`
 - `char *Name = new char[10][20];`
- arr →  $*(arr+i)$ or $arr[i]$

- **new** से एक समय में केवल एक ही **variable** या **array** बनाया जा सकता है।

delete

- **delete** is a keyword
- delete dynamically variable or array using **delete** keyword

Syntax :- delete x; → variable

delete []arr; → Array 1D

delete [][]Name; → Array 2D