

# Lorem Ipsum!!!

- Lorem Ipsum

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.



Heap Memory  $\leftarrow$  Memory Address  
Garbage Collector

#### Memory Managers

- The 2 basic types of memory managers are:
  - (1) Allocation - It allocates memory when required.
  - (2) Deallocation - It deallocates memory when program has executed.

#### Properties of memory manager are

- Space efficiency
- Program "
- Low overhead

#### (1) Garbage Collection:

a Reference Counting: The simplest method is to give each object a reference count.

- If object has no reference, it is collected and space becomes available.

#### (2) Trace Based:

- It is divided into 2 types:
  - Mark and sweep
  - Mut and compact.
- 4 States of memory chunks are free, unreachable, unreachable, and garbage.