

* Free Space Management

• Defragmentation / Compaction

- ① Dynamic partitioning suffers from external fragmentation.
- ② Compaction minimize the probability of external fragmentation.
- ③ All the free space of memory are made contiguous, and all the loaded processes are brought together, this technique is called defragmentation.

• Various algorithm to find the free space in the memory by OS

- (a) First Fit :- Allocate the first free space that is big enough. Simple and fast.
- (b) Next Fit :- Enhancement of first fit, but it starts its search from the position of the last allocated block, rather than the beginning of ^{memory}.
- (c) Best Fit :- Allocate smallest ~~area~~ space that is enough for the process.
- (d) Worst Fit :- Allocate largest space.