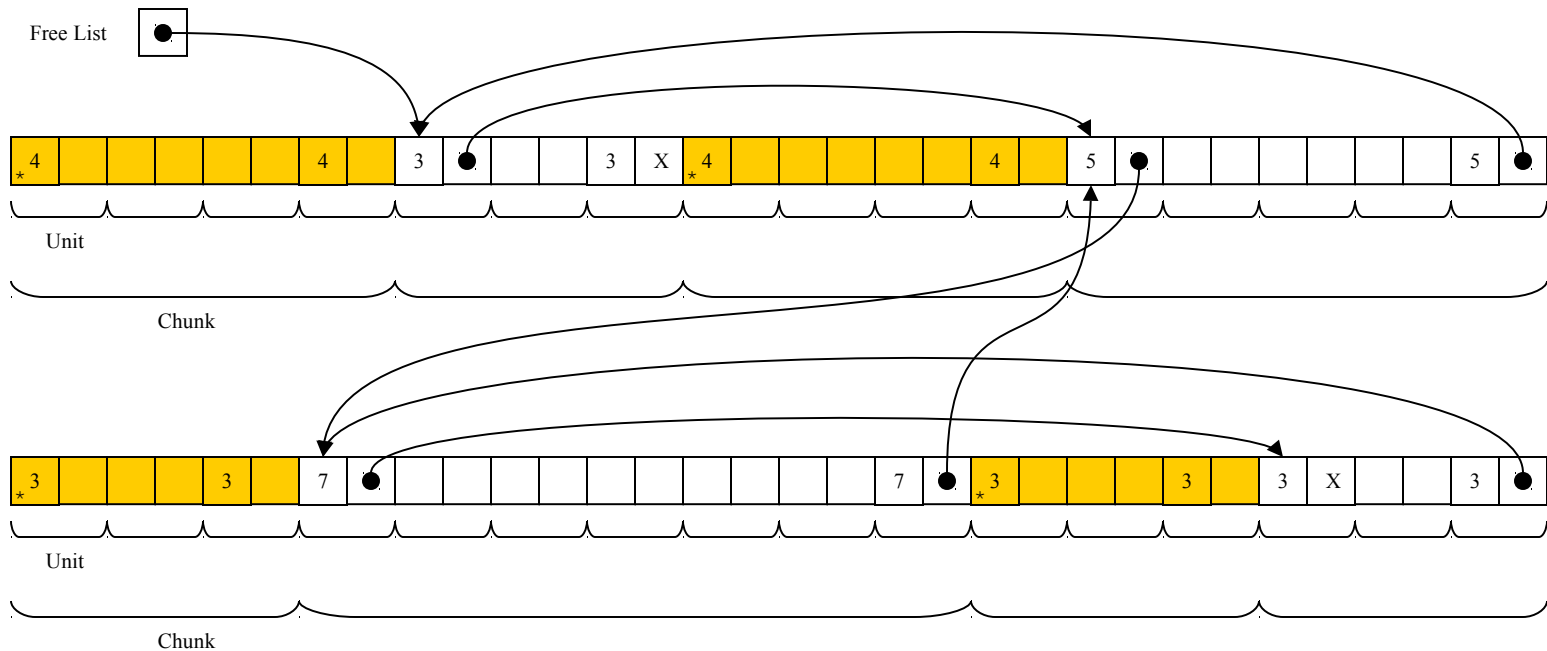


# Princeton University

## COS 217: Introduction to Programming Systems

### Heap Manager: Data Structures for First Assignment Implementation



Each box consists of 8 bytes.

Each Chunk's header Unit contains a status (inuse or free), a length, and, if the Chunk is free, a pointer to the next Chunk in the Free List.

Each Chunk's footer Unit contains a length and, if the Chunk is free, a pointer to the previous Chunk in the Free List.

The Chunks in the Free List are in no particular order.

\* means INUSE; absence of \* means FREE.