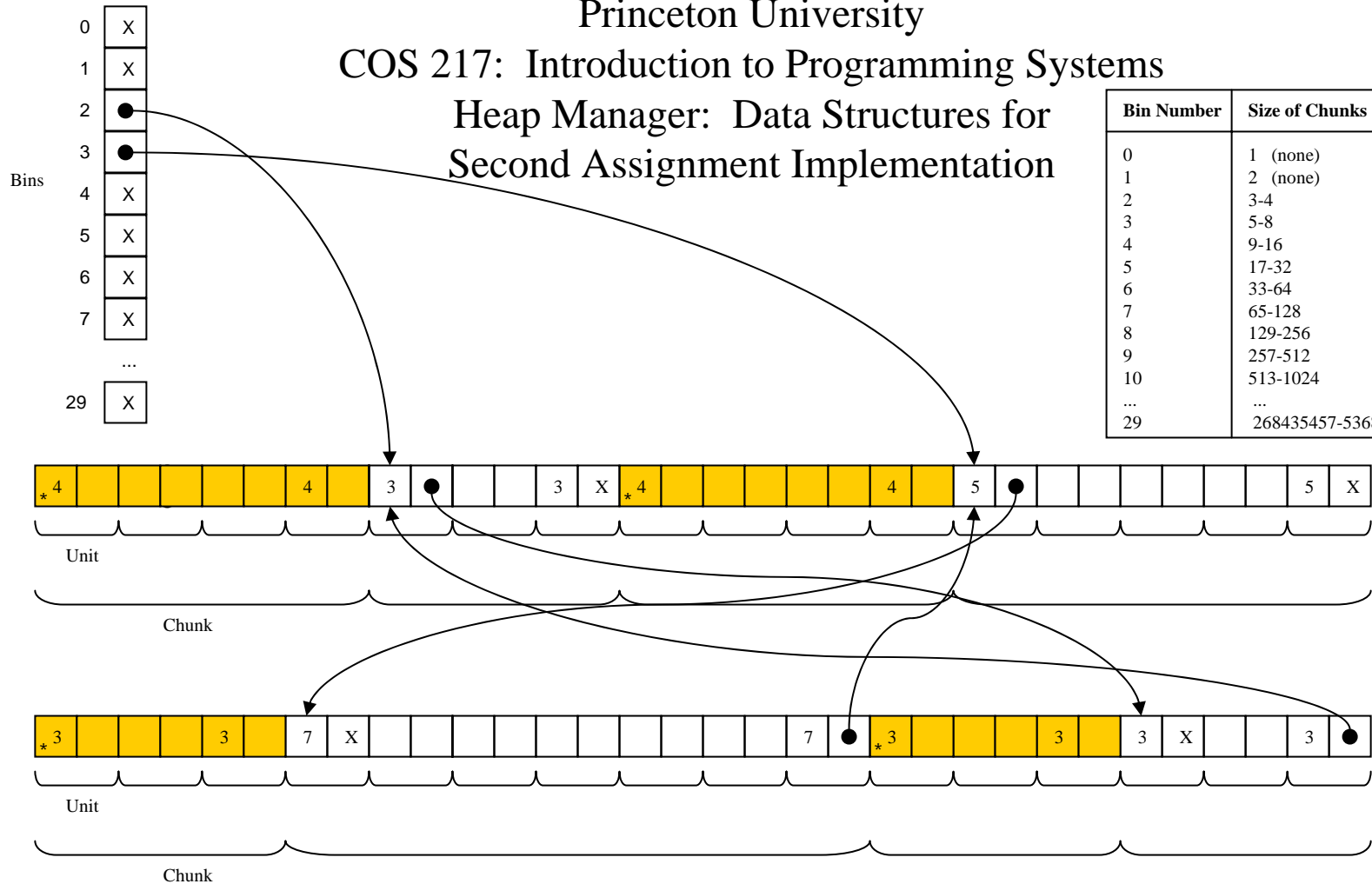# Princeton University
COS 217: Introduction to Programming Systems
Heap Manager: Data Structures for
Second Assignment Implementation

Bin Number	Size of Chunks (in Units)
0	1 (none)
1	2 (none)
2	3-4
3	5-8
4	9-16
5	17-32
6	33-64
7	65-128
8	129-256
9	257-512
10	513-1024
...	...
29	268435457-536870912

Each box consists of 4 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 its Bin.

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

The Chunks in the Bins are in no particular order.

* means INUSE; absence of * means FREE.