MEMORY ALLOCATION ALGORITHMS FOR VARIABLE PARTITIONING
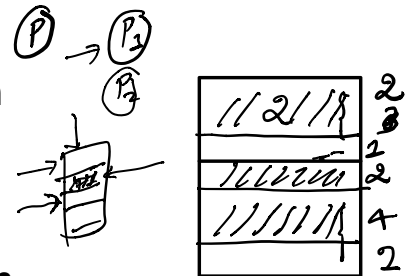
- **FIRST FIT**
  - Allocate the first hole that is big enough
  - Scan from the beginning
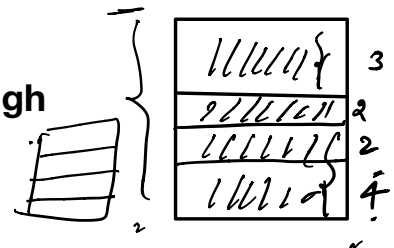- **NEXT FIT**
  - Allocate the first hole that is big enough
  - Scan from location at which previous search ended
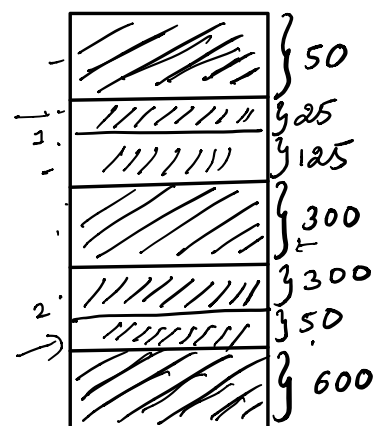- **BEST FIT**
  - Allocate the smallest hole that is big enough
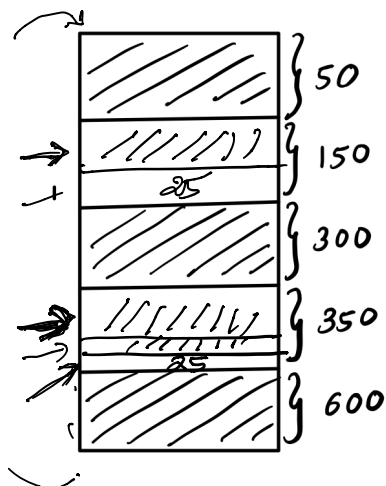 - Produces smallest leftover hole
- **WORST FIT**
  - Allocate the largest hole that is big enough
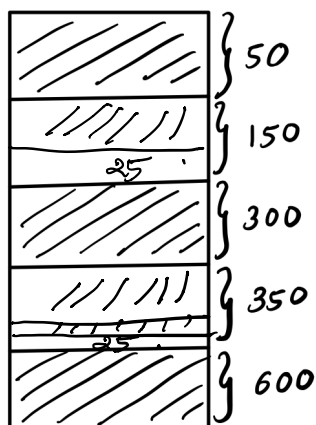 - Produces largest leftover hole which may be more useful than a leftover hole from a best-fit approach

First Fit

→ 300, 25, 125, 50

Next Fit

300, 25, 125, (50)
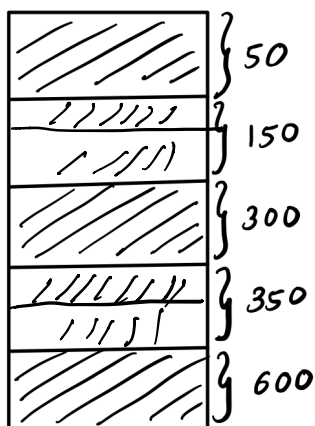
Best Fit

300, 25, (125), (50)

(25 + 25)

Worst Fit

300, 25, 125, 50