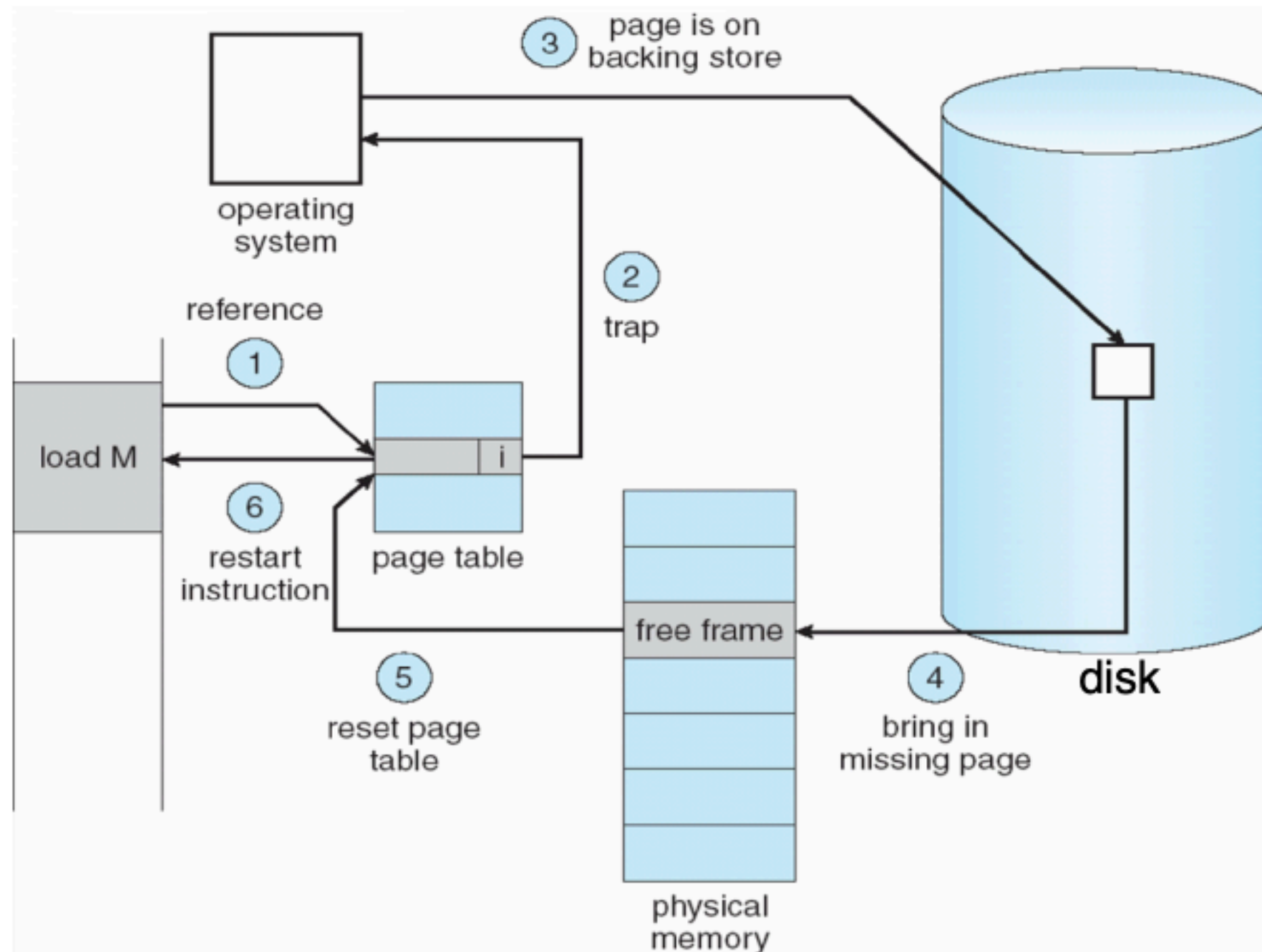


(recap) Swapping

➡ Use disk to simulate larger virtual than physical memory



Page Fault and Page Replacement

What happen when there is a page fault?

- ➔ The OS loads the faulted page frame from disk into physical memory

What when there is no physical memory available?

(or the process has reach its limit of maximum page frame allowed)

- ➔ The OS must evict an existing frame (swap) to replace it with the new one

How to determine which page frame should be evicted?

- ➔ The page replacement algorithm (a.k.a page eviction policy) determines which page frame to evict to minimize the fault rate (affecting paging performances)