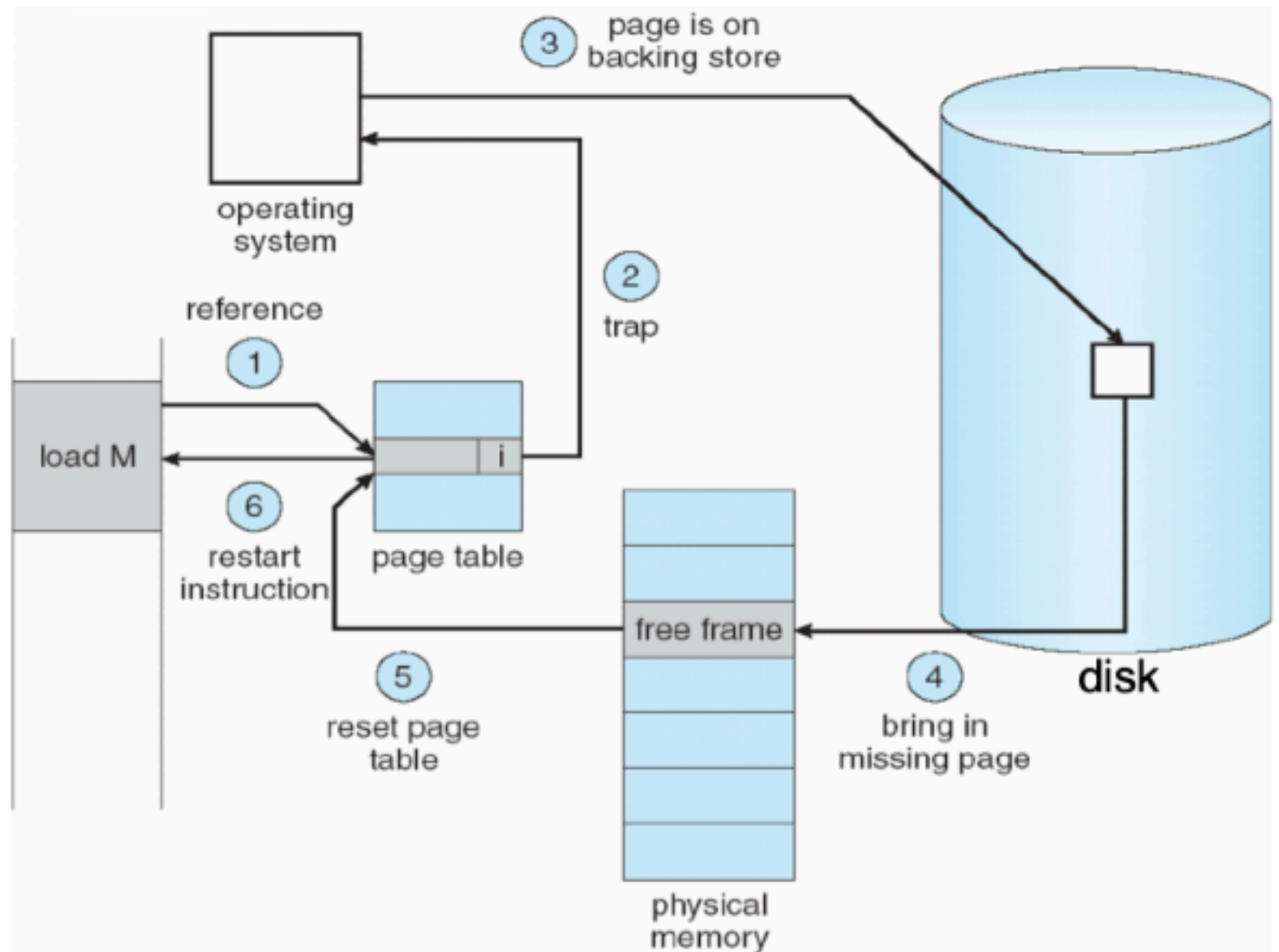


# Page Faults



1. When the OS evicts a page, it sets the PTE as invalid and stores the location of the page in the swap file in the PTE
2. When a process accesses the page, the invalid PTE causes a trap (page fault)
3. The trap will run the OS page fault handler
4. Handler uses the invalid PTE to locate page in swap file
5. Reads page into a physical frame, updates PTE to point to it
6. Restarts process

There is more to the topic of swapping

- ➔ **More on swapping** in the next lecture  
Mechanisms and policy to evict page from memory