1. **Segmentation.** How is segmentation distinct from paging in the context of memory management? How do we combine segmentation and paging in the OS?

2. **Virtual memory.** What are the two main benefits provided by demand paged virtual memory? At a high level, explain how this benefit is provided. What is the main potential downside when using demand paged virtual memory?
3. **Page replacement.** What is the role of a page replacement algorithm in demand paged virtual memory? What is an example of such an algorithm?