## CS 377 – Operating Systems Discussion Session 9 Questions

Name: \_\_\_\_\_

Write your answers individually, without consulting notes, slides, books, or the internet. Be succinct (complete sentences not necessary). Remember to turn your paper over.
1. <b>Segmentation</b> . How is <b>segmentation</b> distinct from <b>paging</b> in the context of memory management? How do we combine segmentation and paging in the OS?
2. <b>Virtual memory</b> . 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?