

711

15 POINTS

- 3. Let ω = 2 3 1 3 2 4 3 2 4 5 1 6 7 5 6 7 4 5 6 7 2 1, be a page reference stream for a given system. You are asked to work with the Least Frequently Used algorithm (referred to as the NFU algorithm in our book) below. You must determine the number of page faults that will occur for the stream shown above with an LFU replacement algorithm for a memory with 3 physical frames and a memory with 5 physical frames. (Please use the grid help sheet on the next page for this problem.)
 - A. Assuming the primary memory is initially empty, how many page faults will the given reference stream have using the page replacement algorithm LFU for:
 - A memory with 3 physical frames

 2. A memory with 5 physical frames
 - B. In our discussion of memory objects, we described some objects as being <u>anonymous</u> (e.g. stack objects) and some as being <u>file based</u> (e.g. text objects). Explain how the pages of an anonymous object are managed differently from a file based object with respect to page replacement of dirty pages that must be backed up for possible reuse.