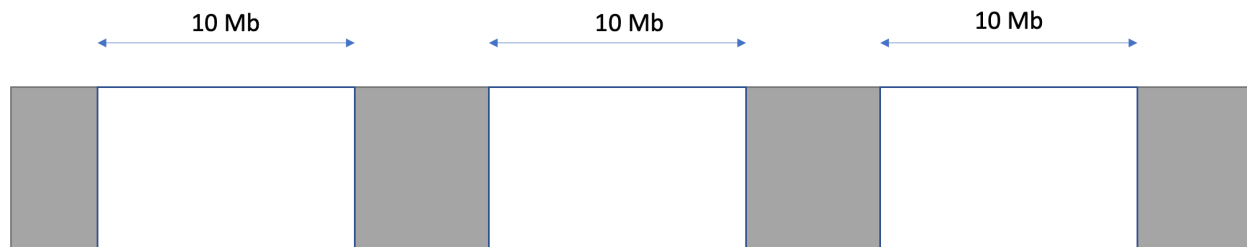**Homework 6**: Due 11/27/2022 at 11:59 PM
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1. **(40 pts)** Assume that a memory module contains three holes of 10MB each. A sequence of 14 requests for 1MB each will be processed (See the diagram below). For each of the memory allocation methods listed below, draw a diagram representing how memory is allocated and determine the sizes of the remaining holes after all 14 requests have been satisfied.

   a. First fit
   b. Next fit
   c. Best fit
   d. Worst fit

Hint – For the Next fit, the following allocation starts with the hole following the previous allocation

10 Mb	10 Mb	10 Mb

2. (**10 pts**) Outline at least three critical differences between Segmentation and Paging in memory management.