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The problem that was stated in the homework problem 3.20 was to create a class that manages PIDs. The class must contain the methods allocate\_map, allocate\_pid and release pid. The method allocate\_pid, creates and initializes a data structure for representing pids. Allocate\_pid allocates and returns a pid. Release\_pid releases a pid. The range of pids are 300-5000.

The major assumptions, that was made for this homework is that there can only be once instance of the pid\_manager running at a time, and the data structure must be thread safe.