CISC 3320 Homework 1 Design Document

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Module 1:

public static int allocate\_map(BitSet pa)

BitSet pa is the BitSet declared in main that is to have space allocated for it.

It sets the value one higher than constant MAX\_PID as true and lets the BitSet class handle pre-allocation of space for PIDs.

It returns 1 if successful, -1 if it fails.

Module 2:

public static int allocate\_pid(BitSet pa)

return new process ID from BitSet pa. Returns first available.

Returns -1 if there are no available PIDs

Module 3:

public static void release\_pid(int pid, BitSet pa)

Releases PID at supplied integer for use by another process. Sets boolean value at BitSet position pid as false.