

The program contains three functions:

`allocate_map ()`:

- creates and initializes a list called "pid_list" that will hold the pids
- takes no parameters, returns 1 if process was successful and -1 if unsuccessful
- a value of 0 represents an available pid
- a value of 1 represents a pid in use

`allocate_pid ()`:

- allocates a pid by setting its value to 1 and returns it
- if unable to allocate a pid, returns -1
- takes no parameters

`release_pid (pid)`:

- releases a pid by setting its value to 0
- takes an int parameter called "pid"