find not busy doctor in set

//assign the not busy doctor and make them begin treating the highest priority patient

//check if the high priority queue is empty

if (not) take and

treat from there

if (true) take

from low priority queue (if it is not empty)

iterate through the set of doctors and repeat this process for every non busy doctor

//now that the doctors are treating the highest priority patients:

find not busy nurse in the set

if the low priority queue has person(s) in it

take and treat them