

# CS16 Heap Reflection

## [Question 1](#)

Priority queues may be used in the medical setting when prioritizing the criticality of patients' conditions relative to one another to most effectively allocate scarce resources of medical equipment and personnel. Other examples may include businesses prioritizing clients by nature of their situation/willingness to compensate or air taxis prioritizing flights to take off by criticality.

## [Question 2](#)

Errors within a medical system's priority queue may determine the life or death of a patient in critical condition. For example, skipping over a patient in dire need of medical attention will most certainly wreak catastrophic results and implicate serious legal and financial consequences. An admission committee's adverse prioritization of certain components of individuals within a priority queue may lead to implicit biases and sub-implicative discrimination within the *system itself*, obtruding the impartiality of the committee and potentially damaging the reputation of the very institution.