You will write a program to solve the problem as follows:

A deadly bacterium is extremely active and will kill a person if they have more than 1M bacteria in their body at any given time.  There is a single cure that takes 2 hours to begin working to kill the bacteria.  If a person starts out with 2 bacteria and doubles every 20 minutes, how long before they are dead? When do you need to start the cure so the patient does NOT die?