```
class Vaccination():
    def call (self, simulation time):
        number_of_vaccinations = 0
        while (number of vaccinations < self.daily dose capacity
                and not self._population.vaccine_queue.empty()):
            person = self._population.vaccine_queue.get()
            person.vaccinate(simulation_time)
            number_of_vaccinations += 1
def vacc_all(q, t, D):
    # Set a counter for the number of people vaccinated
    # Vaccinate until you run out of people to vaccinate,
    # or until you run out of vaccine doses
    while N<D & int(len(q)>0)==1:
        p = q[len(q)-1] # Get the last person in the queue
        q = q[0:len(q)-1] # Remove last person from the queue
        vaccOne(p,t) # Vaccinate one person and record the time
        N = N + 1 # Increment the counter
```