Automated Biryani Serving

Functions:

1.) table_init()
-> .slots number of available slots on serving table
-> .capacity current capacity of vessels hold by service container

2.) robot_init()
-> .vessels no of vessels a robot currently have

3.)biryani_ready
-> called when robot i prepared its vessels

inside an infinite loop which ensures waiting until all vessels of robot i are empty
-> first lock() to check if the vessels of a robot are only
changed by a single thread.
-> if roboti.vessels==0
 return and resume cooking

4.) make
-> inisde an inifinte loop to ensure that a robot can resume cooking after supplying birynani produced
-> function where robots prepare their biryani and then call biryani_ready

5.) student_in_slot
-> to tell serving table it's presence.
-> Student served the food here and table's capacity reduces by one.

6.) wait_for_slot
-> sleep(arrival time of student)
in an infinite loop -> ensures student waiting until slot is assignmed to him
-> for all tables
 if slot is available
  slot_assign->student
  break
->call student_in_slot()

7.) ready_to_serve()
-> serves the food to students in assigned slot
-> runs untill container becomes empty or all slots become full or no student is waiting.

8.)get()
-> first we assign biryani to table's container i.e. table getting a biryani.
-> Then Table gets ready to serve biryani calls ready_to_serve function.