```
def calc enoder count (distance):
   return math magic that converts distance to how many encoder counts needed
def calc degrees to distance (degrees):
   return math magic that converts degrees to a distance from the wheelbase and diameter
def turn (degrees, num wheels):
  distance = call calc_degrees_to_distance with degrees
   count = call calc enoder count with distance
   if using both wheels:
       if (degrees < 0): # turn right (CW)
          raise not implemented
       else: # turn left (CCW)
           while both counts absolute value are less than count:
               call rotate left motor speed with -5%
               call rotate right motor speed with 5%
   else:
      raise not implemented
def travel straight (distance):
  count = call calc enoder count with distance
  call set both motor speed with 10%
   while both counts are less than count:
       if left and right counts vary by more than 2 counts:
           if left count is larger than right count:
               call increase left motor speed with 5%
               call decrease right motor speed with 5%
           if right count is larger than left count:
               call increase_right_motor_speed with 5%
               call decrease decrease motor speed with 5%
def loop (void):
  call reset_encoder
   repeat 4 times:
       call travel straight with 0.5 meter
       call turn with 90 deg and both wheel
   repeat 3 times:
       call travel straight with 0.5 meter
       call turn with 60 deg and both wheel
```