Lab 8

Step A1:

i = 0

counter = 0

i= position

as long as i is less than text length

letter = (i,i+1)

if letter = vowel

counter = counter + 1 and i=i+1

otherwise i+i+1

return counter

Step A2: Done

Step A3: Done

Step A4:

i = 0

counter = 0

as long as i is less then text length

letter 1 = (i,i+1)

letter 2 = (i+1, i+2)

letter 3 = (i+2 , i +3)

letter 4 = (i+3, i+4)

if letter 1 = vowel

counter = counter +1

if letter 2 = vowel

if letter 3 = vowel

if letter 4 = vowel

i = i +5

else i = i+4

else i = i+3

else i = i+2

else i = i+1

return counter

Step A5: Done

Step B1: Done

Step B2:

arm length = 1

arm forward = arm length

while arm length > 0

while arm forward > 0

drop bottle

move forward

arm forward = arm forward - 1

turn right

arm forward = arm length

while arm forward > 0

drop bottle

move forward

arm forward = arm forward - 1

turn right

arm length = arm length +1

Step B3: Done

Step C1:

for n is zero as long as n is smaller then grid size add one

for m=n and m > 0 n--

Point2D start = Point2D end;

if dx == 1

end = start.getx + m

if dx == -1

endgetx = start.getx - m

if dy ==1

endgety = start.gety + m

if dy == -1

endgety = start.gety - m

Step C2: Done