# HW 2: Finite State Machine - Package Sorting Machine

Name: Serkan Atay

First name: Serkan

Surname: Atay

Matriculation number: 1207077

State q1: No blockage of the sensors.

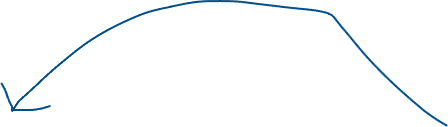
State q2: First sensor light *s(1, 0)* is blocked.

State q3: Both sensors *s(0, 0)* are free again => Small package in between the sensors.

State q4: Both sensor lights *s(1, 1)* are blocked => Large package.

State q5: First sensor *s(0, 1)* is not blocked anymore => Package is being transmitted.

S(0, 0)



s(0, 1)

s(1, 1)

q4

s(1, 0)

q2

q1

s(0, 1)

s(0, 0)

q5

q3