IS 604 – Homework #1

J. Hamski

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1.1) Name several entities, attributes, activities, events, and state variables for the following systems:

    a. Cafeteria

entities: diners
attributes: tables vacancies
activities: sitting down, eating
events: arrive at seat, depart seat
state variables: number of diners

    b. Grocery store
        entities:
        attributes: *activities*:
        events:
        state variables:

    c. laudromat *entities*:
        attributes: *activities*:
        events:
        state variables:

    d. Fast-food restaurant *entities*:
        attributes: *activities*:
        events:
        state variables:

    e. Hospital emergency room *entities*:
        attributes: *activities*:
        events:
        state variables:

    f. Taxicab company with 10 taxis *entities*:
        attributes: *activities*:
        events:
        state variables:

    g. Automobile assembly line *entities*:
        attributes: *activities*:
        events:
        state variables:

2.1)

2.2)

2.4)

2.5)

2.7)

2.8)