Assignment 4

Read application number 19.19 in your book (page: 749). Following the logic in the book, you have to create a function that takes (Fixed, variable and inventory cost for each day plus the demand for each day) to construct a network to be able to solve it using Dijkstra algorithm implemented in the lab to find the optimal lot scheduling. Your code will have the following 2 functions:

```
In [ ]: function constructShortestPathNetwork(a,b,h,d)
            # a: a vector representing fixed cost for each day
            # b: a vector representing variable cost for each day
            # h: a vector representing inventory cost for each day
            # d: a vector representing demand for each days

             return shortestPathNetwork
             #an adjacency list representing the graph that you are going to work on to find the
        end

In [ ]: function findOptimalLotSchedule(shortestPathNetwork)
             return optimalLotSchedule #pred array representing the shortest path from the first
        end

In [ ]: You may test your code with the following values:
                a = [2,5,2]
                b = [1,1,4]
                h = [1,2,-]
                d = [2,4,3]
```

0.1 Submission Instruction

1. Submission deadline 5 November 2017 at 11:59 pm.
2. Send your assignment to cicourse2014@gmail.com.
3. The subject of your email should be "ID_Assignment#4".
4. Send your assignment file as ".jl" file (no zipped folders or notebooks) and name the file with "ID_Assignment#4.jl