```
function [exchangeMatrix] = createExchange_01(...
                                timeStamp)

    % Create theoretical stocks.

    % This will create a list of
    % theoretical stocks with information
    % about their behavior.

    % Create theoretical stocks and add data
    % to their structures.  Create a
    % "stockExchange" matrix to store a list
    % of all the stocks theoretically available
    % for purchase.  Each stock in the exchange
    % will have

    % This code will create 5 imaginary stocks
    % with a range of share prices.  The
    % stock exchange, timestamp, and trading
    % volume will be the same for all the stocks,
    % since price is the focus of the simulation.

    exchangeMatrix(1) = createStock(...
        'Stock_A',...
        'AAA',...
        'Exchange_01',...
        10.0,...
        timeStamp(1),...
        timeStamp(2),...
        timeStamp(3),...
        11.0,...
        9.0,...
        10.0,...
        10000);
    exchangeMatrix(2) = createStock(...
        'Stock_B',...
        'BBB',...
        'Exchange_01',...
        50.0,...
        timeStamp(1),...
        timeStamp(2),...
        timeStamp(3),...
        51.0,...
        49.0,...
        50.0,...
        10000);
    exchangeMatrix(3) = createStock(...
        'Stock_C',...
        'CCC',...
        'Exchange_01',...
        90.0,...
```

```
        timeStamp(1),...
        timeStamp(2),...
        timeStamp(3),...
        91.0,...
        89.0,...
        90.0,...
        10000);
    exchangeMatrix(4) = createStock(...
        'Stock_D',...
        'DDD',...
        'Exchange_01',...
        130.0,...
        timeStamp(1),...
        timeStamp(2),...
        timeStamp(3),...
        131.0,...
        129.0,...
        130.0,...
        10000);
    exchangeMatrix(5) = createStock(...
        'Stock_E',...
        'EEE',...
        'Exchange_01',...
        170.0,...
        timeStamp(1),...
        timeStamp(2),...
        timeStamp(3),...
        171.0,...
        169.0,...
        170.0,...
        10000);

    return;

end
```