EXERCISES

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Ex1: 1

```
reqMatrix = [ones(3,4) ; 2*ones(3,4)]
```

```
reqMatrix =

     1     1     1     1
     1     1     1     1
     1     1     1     1
     2     2     2     2
     2     2     2     2
     2     2     2     2
```

Ex1: 2

```
X = [ 1 2 ; 3 4]
reqX = repmat(X,4,4)
```

```
X =

     1     2
     3     4


reqX =

     1     2     1     2     1     2     1     2
     3     4     3     4     3     4     3     4
     1     2     1     2     1     2     1     2
     3     4     3     4     3     4     3     4
     1     2     1     2     1     2     1     2
     3     4     3     4     3     4     3     4
     1     2     1     2     1     2     1     2
     3     4     3     4     3     4     3     4
```

Ex1: 3

```
speed = 15;
times = [ 1,4, 7, 10, 13];

distance = speed*times
```

```
distance =

    15    60   105   150   195
```

EX1: 4

```
distances = [100 150 200 ];
timeTaken = [2 1.5 3];
speeds = distances./timeTaken;
avgSpeed = mean(speeds)
```

```
avgSpeed =

   72.2222
```

EX2

```
randNumber = nan(1,1000); % Initialize the numbers as nans
for i = 1:1000
    randNumber(i) = rand(1);
    if(randNumber(i) >= 0.5 && randNumber(i) <=0.55)
        nrDraws = i;
        break;
    end
end
disp(nrDraws)
```

```
     7
```

EX3

```
% function [meanVal,stdVal] = mstd(matrix)
%
% meanVal = mean(matrix,2);
% stdVal  = std(matrix,0,2);
%
% end
```

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