

CIEG 675 Hw#1 solutions

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%% Homework 1 solutions for CIEG 675 (cut and paste into an me-file to test in matlab)
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%% Problem 1
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```
prob1 = 1:0.02:10; % row vector from 1 to 10 with 0.02 spacing
```

```
%% Problem 2
```

```
prob2 = [1 2 3; 4 5 6; 7 8 9]; % 3x3 with entries 1 through 9
```

```
%% Problem 3
```

```
prob3 = [prob2(1,1) prob2(2,2) prob2(3,3)]; % diagonal entries from prob2
```

```
% note that matlab has a built in function called diag with will grab the
```

```
% diagonal entries
```

```
prob3a = diag(prob2);
```

```
%% Problem 4
```

```
prob4 = [prob2(1,1) prob2(1,3) prob2(3,1) prob2(3,3)]; % corner entries from prob2
```

```
%% Problem 5
```

```
prob5 = prob2(2,:); % middle row from prob2
```

```
%% Problem 6
```

```
prob6 = prob2(:,3); % last column from prob2
```

```
%% Problem 7
```

```
Survey1 = [1 2; 3 4]; % survey 1
```

```
Survey2 = [5 6; 7 8]; % survey 2
```

```
Survey3 = [9 10; 11 12]; % survey 3
```

```
prob7(:,1) = Survey1;
```

```
prob7(:,2) = Survey2;
```

```
prob7(:,3) = Survey3; % the survey data as one variable
```

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%% Problem 8
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```
prob8 = [1:8 15:24]; % values from 1 to 8 and 15 to 24
```