

% q6

```
clear all
close all
load systolic.mat
```

```
plot(w, p, 'ok', 'linewidth', 2)
```

```
len = length(w);
A = [ones(len, 1), log(w)];
```

```
xbar = inv(A'*A)*A'*p;
```

```
b0 = xbar(1); b1 = xbar(2);
```

```
% b0 = 19.5539
```

```
% b1 = 19.6045
```

```
pred = b0 + b1*log(85);
```

```
% estimated systolic blood pressure is 106.6501 mmHg
```