

```
clear
```

```
x.data = [0,-1,1,0];  
x.offset = -1
```

```
x = struct with fields:  
    data: [0 -1 1 0]  
    offset: -1
```

```
h.data = [0,1,1,-1,-1,0];  
h.offset = -2
```

```
h = struct with fields:  
    data: [0 1 1 -1 -1 0]  
    offset: -2
```

```
h_flip = flipit(h)
```

```
h_flip = struct with fields:  
    data: [0 -1 -1 1 1 0]  
    offset: -3
```

```
y.data = zeros(1,length(x.data)+length(h.data)-1)
```

```
y = struct with fields:  
    data: [0 0 0 0 0 0 0 0]
```

```
y.offset = 0
```

```
y = struct with fields:  
    data: [0 0 0 0 0 0 0 0]  
    offset: 0
```

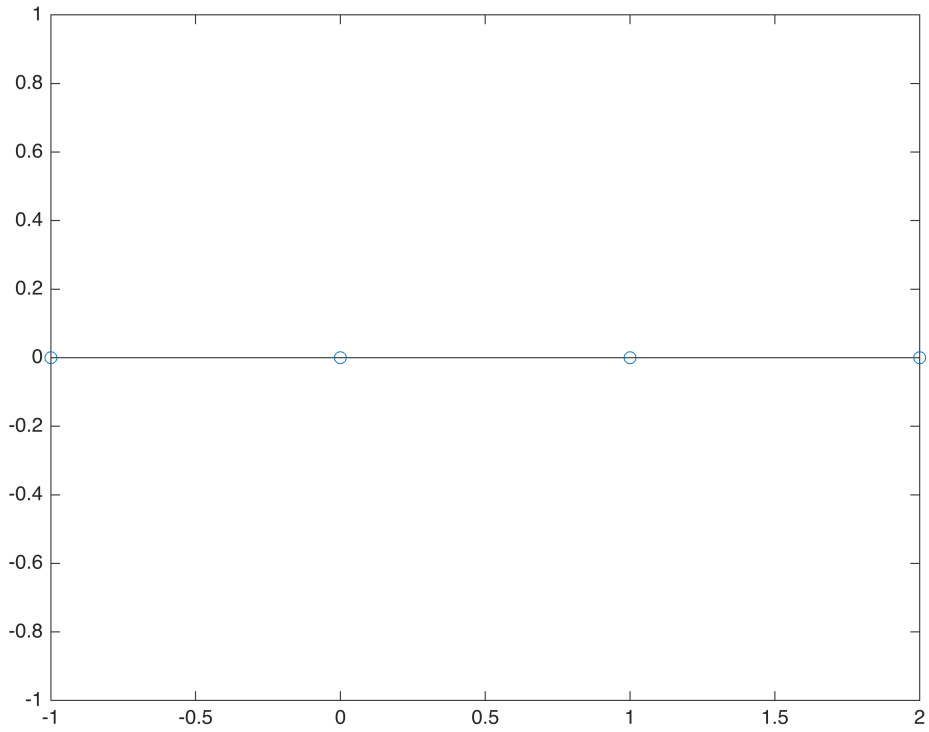
```
disp('Begin for loop')
```

Begin for loop

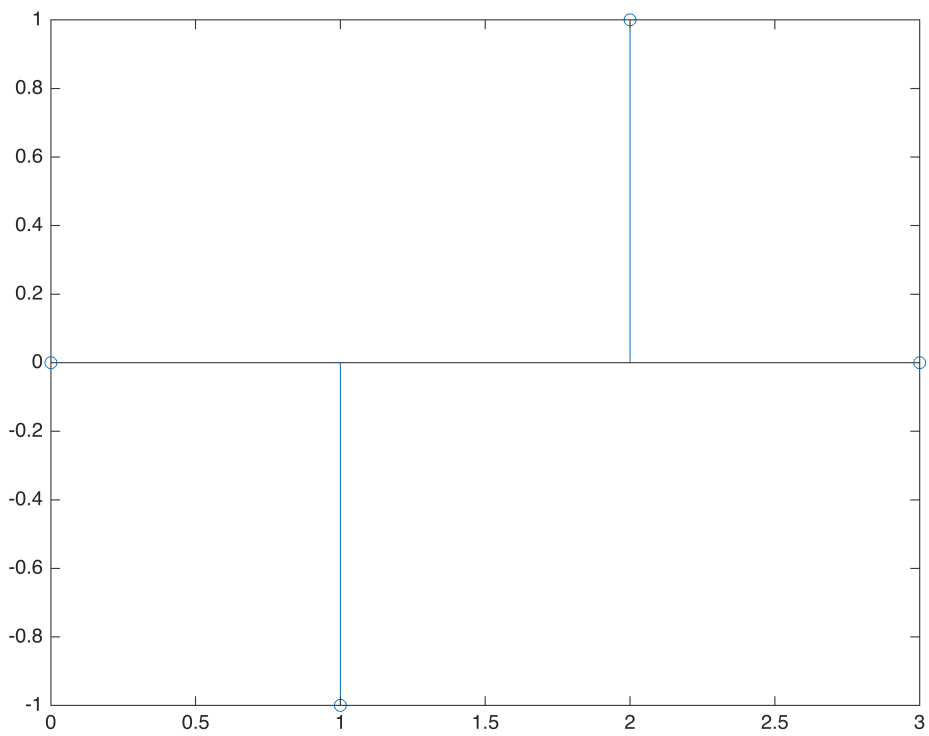
```
for n=1:length(h.data)  
  
    disp(["n=",n])  
    x_shifted = shiftit(x, n-1);  
    y_temp = multit(h.data(n),x_shifted)  
    figure;  
    stemit(y_temp);  
    % title('n=',n-1);  
    y = addit(y, y_temp);  
end
```

```
"n="      "1"  
y_temp = struct with fields:
```

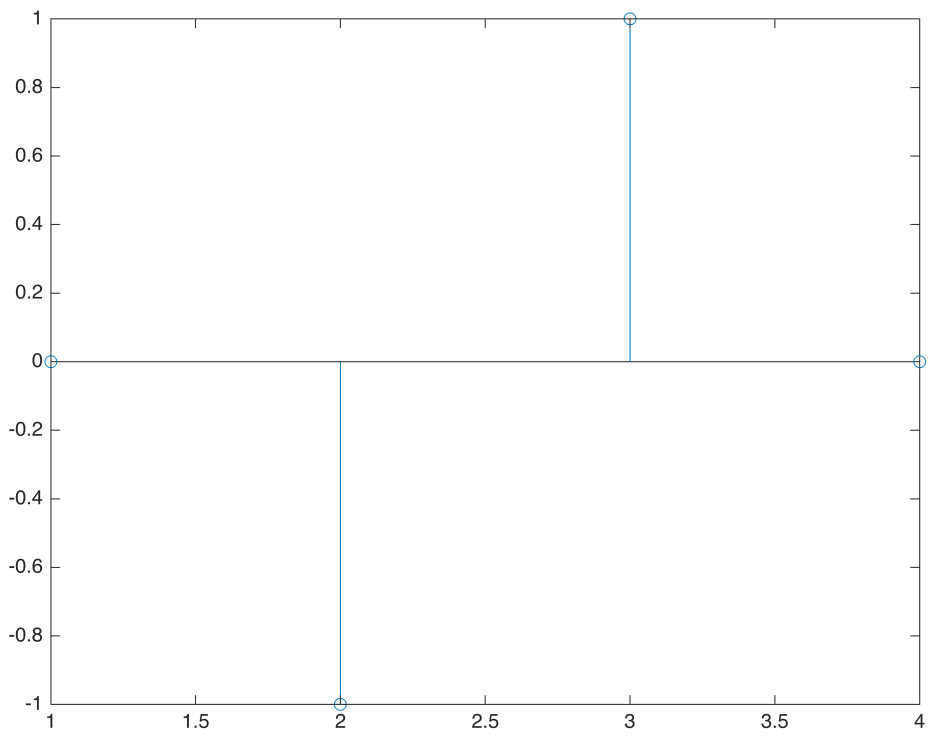
```
data: [0 0 0 0]
offset: -1
```



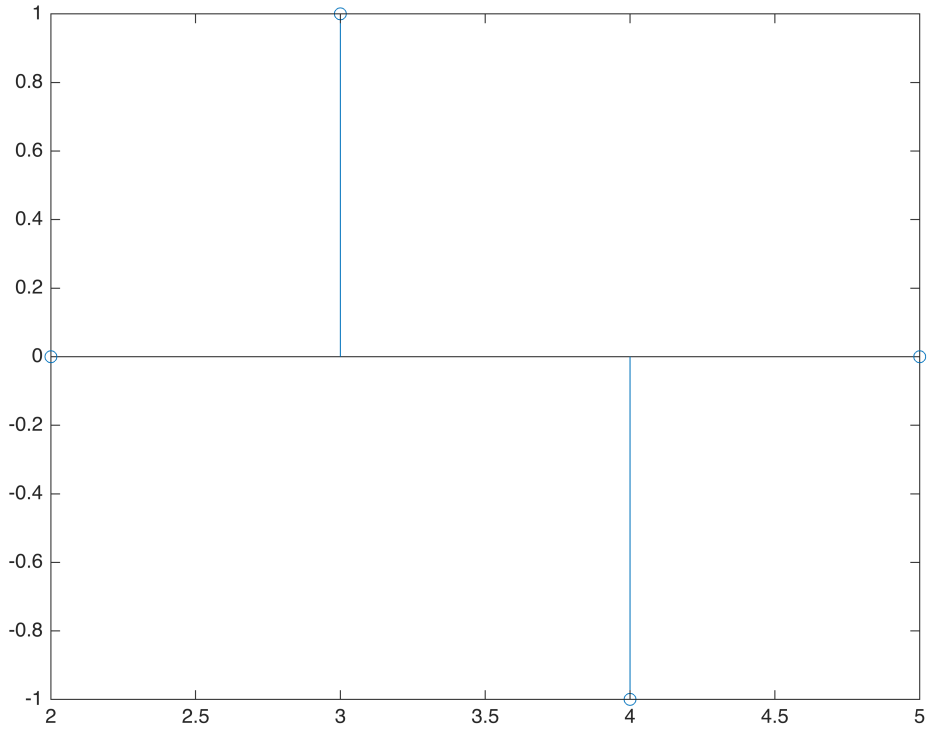
```
"n="      "2"
y_temp = struct with fields:
  data: [0 -1 1 0]
  offset: 0
```



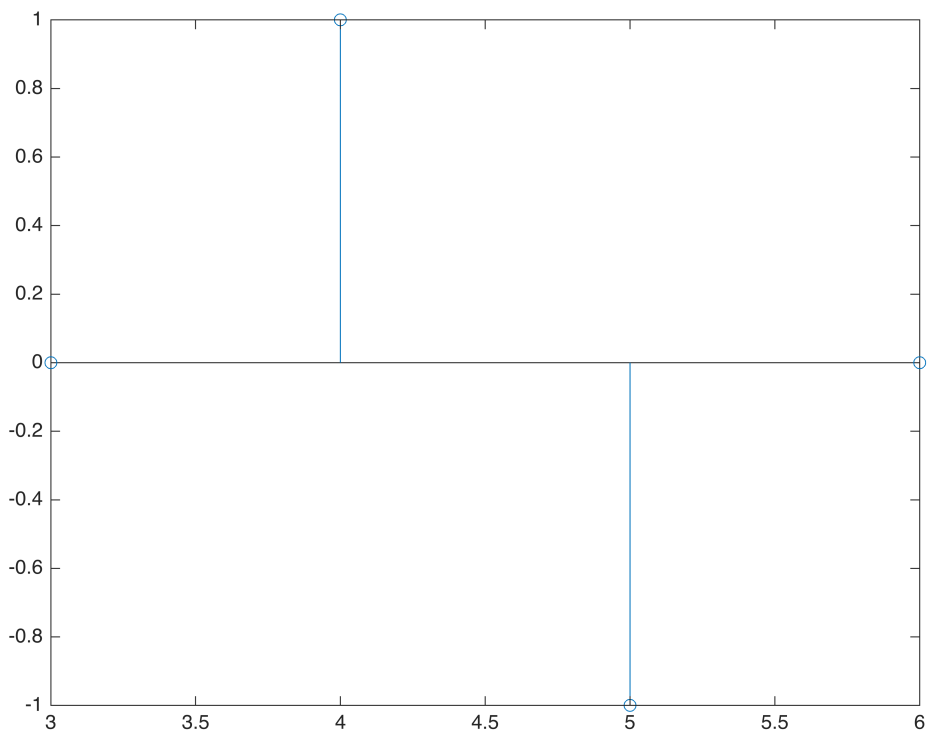
```
"n="      "3"
y_temp = struct with fields:
    data: [0 -1 1 0]
    offset: 1
```



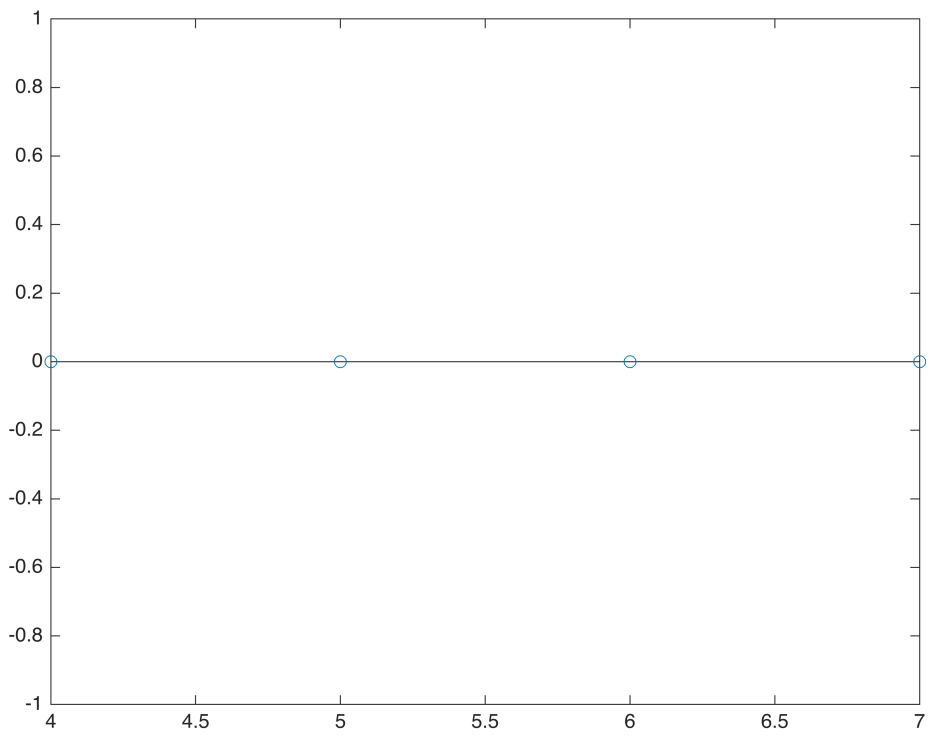
```
"n="      "4"  
y_temp = struct with fields:  
  data: [0 1 -1 0]  
  offset: 2
```



```
"n="      "5"  
y_temp = struct with fields:  
  data: [0 1 -1 0]  
  offset: 3
```



```
"n="      "6"
y_temp = struct with fields:
    data: [0 0 0 0]
    offset: 4
```



```
figure;  
stem(y);  
title('y[n]');
```

