```
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 0]
```

```
y.offset = 0
```

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

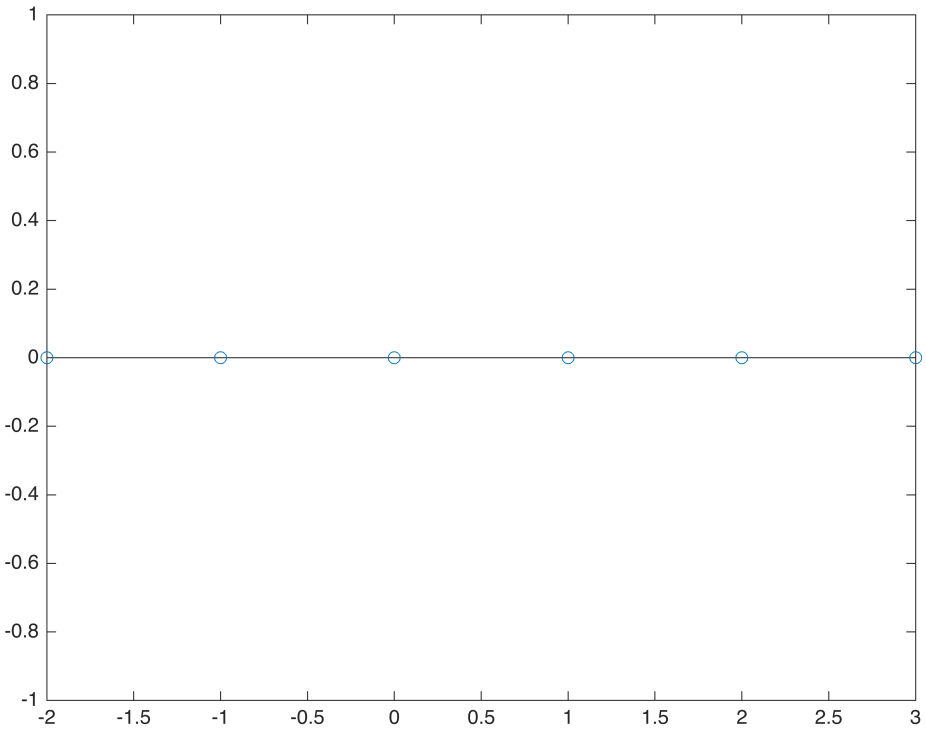
```
disp('Begin for loop')
```

```
Begin for loop
```

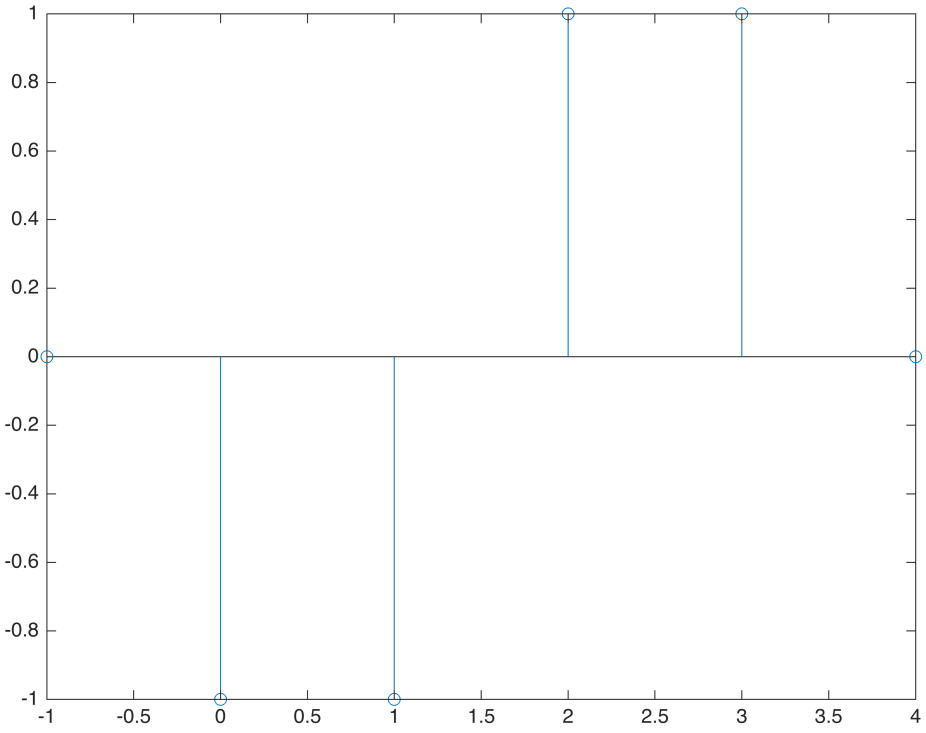
```
for n=1:length(x.data)

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

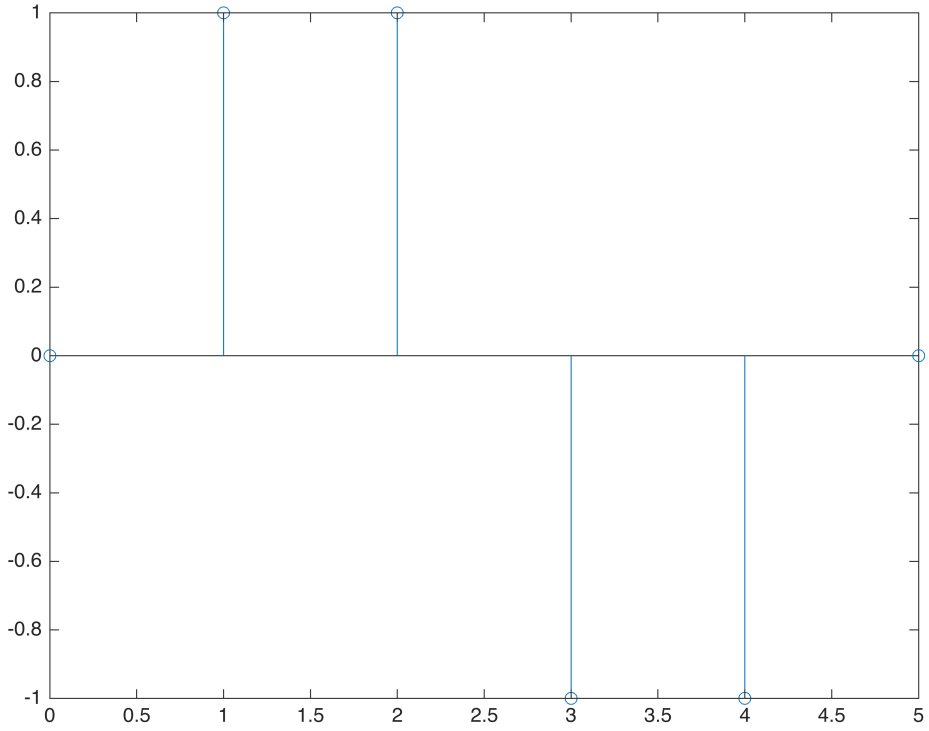
```
    "n="    "1"
y_temp = struct with fields:
      data: [0 0 0 0 0 0]
    offset: -2
```



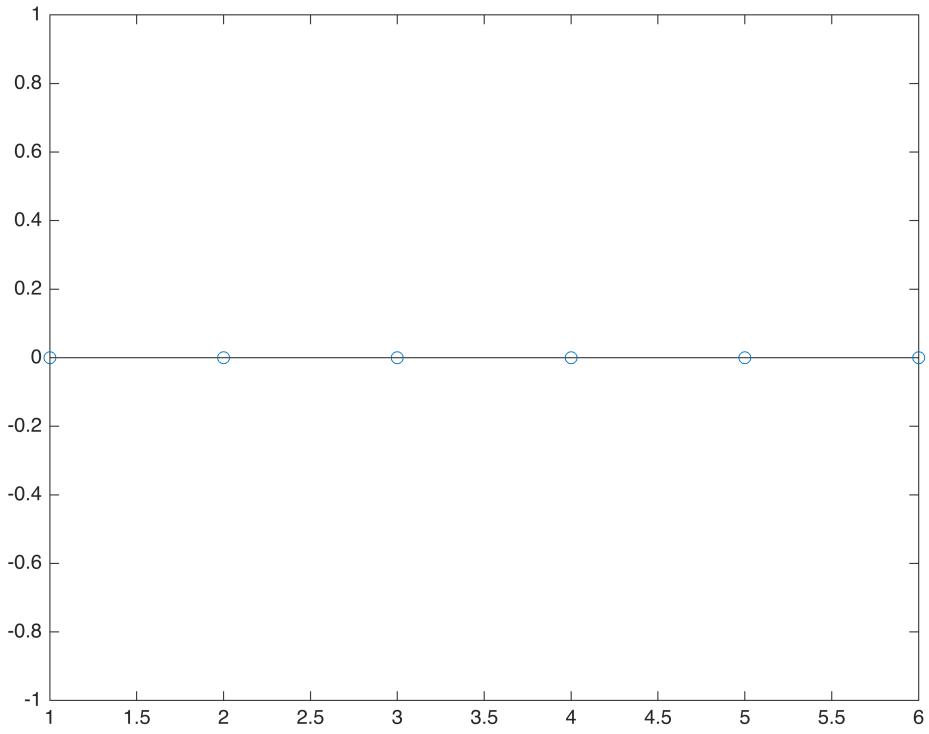

```
    "n="    "2"
y_temp = struct with fields:
      data: [0 -1 -1 1 1 0]
    offset: -1
```



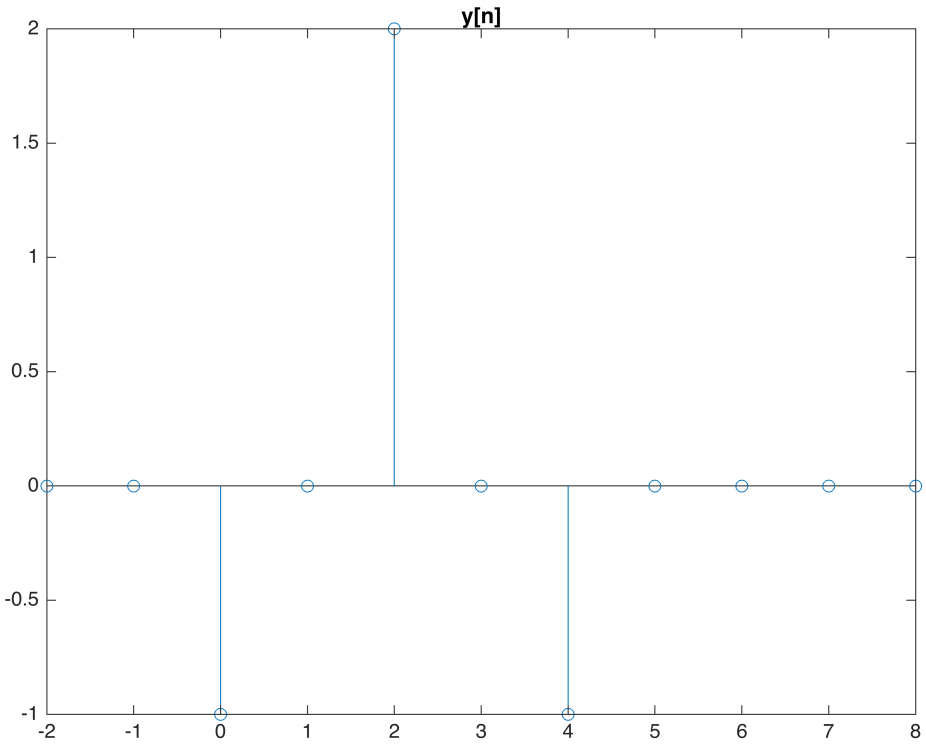
```
    "n="    "3"
y_temp = struct with fields:
      data: [0 1 1 -1 -1 0]
    offset: 0
```




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




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


y[n]
2
1.5
1
0.5
0
-0.5
-1
-2
-1
0
1
2
3
4
5
6
7
8