


```
0.000000
0.000000
0.000000
0.000000
0.000000
0.000000
0.000000
0.000000
0.000000
0.000000
0.000000
0.000000
0.000000
0.000000
0.000000
0.000000
```

Prob. 2

(a) The impulse response from MATLAB is shown below.

```
h =
  0.1667
  0.5000
  0.4444
  0.0000
 -0.1481
 -0.0000
  0.0494
  0.0000
 -0.0165
 -0.0000
  0.0055
  0.0000
 -0.0018
 -0.0000
  0.0006
  0.0000
 -0.0002
 -0.0000
  0.0001
  0.0000
```

(b) The impulse response from the C program is shown below.

```
0.166700
1.000000
0.500000
0.000000
0.444439
0.000000
0.000050
0.000000
```

-0.148131
0.000000
-0.000017
0.000000
0.049372
0.000000
0.000006
0.000000
-0.016456
0.000000
-0.000002
0.000000
0.005485
0.000000
0.000001
0.000000
-0.001828
0.000000
-0.000000
0.000000
0.000609
0.000000
0.000000
0.000000
-0.000203
0.000000
-0.000000
0.000000
0.000068
0.000000
0.000000
0.000000

Textbook Problems

Solutions to textbook problems may be found in the online solution manual.