To demonstrate how the pieces work together, we can repeat our example:

```
>> alphabet = {'0' '1' '2' '3' '4' '5' '6' '7'};
  >> p = [0.05 0.2 0 0.2 0.1 0.25 0.05 0.15];
  >> [tree, tab] = hufftree(alphabet,p);
  tab =
      val: {'1' '3' '5' '7' '2' '0' '6' '4'}
     code: {'00' '01' '10' '110' '111000' '111001' '11101' '11111'}
  >> message = {'1' '3' '3' '7' '1' '5' '4' '5' '1' '5' '1' '3' '5' '7'
'0' '6' '3' '4' '7'};
  >> code = huffencode(message,tab)
  code =
  >> decoded = huffdecode(code, tree)
  decoded =
    Columns 1 through 13
                '3' '7' '1' '5'
     '1'
           131
                                        '4' '5' '1'
                                                         151
151
    '1'
    Columns 14 through 20
          171 101 161 131 141
     151
  >>
```