```
% Joseph R. Palicke
% Lab 10 Pt 2
sig = repmat([3 3 1 3 3 3 3 3 2 3],1,2) % Data to encode
                              % Distinct data symbols
symbols = [1 2 3];
appearing in sig
                              % Probability of each data
p = [0.1 \ 0.1 \ 0.8];
symbol
dict = huffmandict(symbols,p);
                            % Create the dictionary
                           % Encode the data
hcode = huffmanenco(sig,dict)
dhsig = huffmandeco(hcode,dict)
                           % Decode the code
[sig(:) dhsig(:)]
hcode
sig =
Columns 1 through 13
       3 1 3 3 3 3 2 3 3
 3 1
 Columns 14 through 20
   3 3 3 3 2
hcode =
Columns 1 through 13
       0 1 1 0 0 0
                                 0
                                     0 1
Columns 14 through 24
  0 1 1 0 0 0 0 0 1 0
dhsig =
Columns 1 through 13
   3 3 1 3 3 3 3 2 3 3
 3 1
 Columns 14 through 20
   3 3 3 3 2 3
```

1

ans = hcode = Columns 1 through 13 0 0 1 1 0 0 0 0 0 1 0 0 0 Columns 14 through 24

0 1 1 0 0 0 0 1 0

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