
%%Lab 10p2

```
sig = repmat([3 3 1 3 3 3 3 3 2 3],1,2); % Data to encode
symbols = [1 2 3]; % Distinct data symbols appearing in sig
p = [0.1 0.1 0.8]; % Probability of each data symbol
dict = huffmandict(symbols,p); % Create the dictionary.
hcode = huffmanenco(sig,dict); % Encode the data.
dhsig = huffmandeco(hcode,dict);
```

```
disp(hcode);
```

```
disp(dhsig);
```

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      0      1      0      0
```

Columns 1 through 13

```
      3      3      1      3      3      3      3      3      2      3      3
3      1
```

Columns 14 through 20

```
      3      3      3      3      3      2      3
```

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