## Solution and example rubric for medium coding:

```
function wordComparison(name, word1, word2)
     fh1 = fopen(name, 'r')
     newname = ['compare', word1, '', word2, '.txt']
     fh2 = fopen(newname, 'w')
     line = fgetl(fh1)
     while ischar(line)
           count1 = length(strfind(lower(line), lower(word1))
           count2 = length(strfind(lower(line), lower(word2))
           if count1 > count2
                 fprintf('%s\n', word1)
           elseif count1 < count2</pre>
                 fprintf('%s\n', word2)
           else
                 fprintf('equal\n')
           end
           line = fgetl(fh1)
     end
     fclose(fh)
     fclose(fh2)
end
```

## Rubric

```
15 points total

+1- function header

+1 - open input file

+1 - generate new filename

+1 - open output file

+4 - while loop structure

+2- count number of both words
```

- +1 compare word counts at all
- +1 compare word counts correctly
- +2 Write line to new file correctly
- +1 Close files