

# Thompson, Riley - (19rthompson), HLT 538

Here is a screenshot of the code and it working in the command line

The screenshot shows the Visual Studio Code interface with the following details:

- Explorer View:** Shows a folder structure for "HTL538-COMPUTATIONAL\_LINGUISTICS [WSL: DEBIAN] / hw1". Inside "hw1", there are files "sort.pl" and "sort1.pl".
- Terminal View:** The terminal tab is active, showing the output of running the "sort.pl" script. It shows two test cases:
  - Input: perl sort.pl 3 1 4 1 5 9 2 6 5  
Output: 1 1 2 3 4 5 5 6 9
  - Input: perl sort.pl 20 50 30 9 1  
Output: 1 9 20 30 50
- Status Bar:** Shows the file path as "WSL: Debian / sort.pl", line count as "Ln 2, Col 18", and encoding as "UTF-8".

```
my @list = sort{$a <=> $b} @ARGV;
print "@list","\n";
"
```

Here is the script and example cases for question 2 part a. I believe this test case is rather robust because it has repeated stop words, stop words with a comma after (which is not removed). I doubt this would be doable without a regex), and capitalized stop words:

The screenshot shows the Visual Studio Code interface with the following details:

- Explorer View:** Shows a folder structure for "HTL538-COMPUTATIONAL\_LINGUISTICS [WSL: DEBIAN] / hw1". Inside "hw1", there are files "hash.pl" and "sort.pl".
- Terminal View:** The terminal tab is active, showing the output of running the "hash.pl" script. It shows two test cases:
  - Input: perl hash.pl The sentence to be altered goes here without quotes.  
Output: The sentence to altered goes here without quotes.
  - Input: perl hash.pl The the THESE apples, are are the BEST test apples, BEST test  
Output: The the THESE apples, are are the BEST test apples, BEST test
- Status Bar:** Shows the file path as "WSL: Debian / hash.pl", line count as "Ln 13, Col 1", and encoding as "UTF-8".

```
#!/usr/bin/perl
my @stopwords = qw(an the that this these those am is are was were being been);
my %stopwords;
foreach $word (@stopwords) {
    $stopwords{$word} = undef;
}
foreach $word (@ARGV) {
    unless (exists $stopwords{lc($word)}) {
        print $word. ' ';
    }
}
print "\n"
"
```

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```
my @stopwords = qw(a an the that this these those am is are was were be being been);
my %stopwords;
foreach $word (@stopwords) {
    $stopwords{$word} = undef
}
foreach $word (@ARGV) {
    unless (exists $stopwords{lc($word)}) {
        print $word.' ';
    }
}
print "\n"
""
```

And for case B:

```
sort.pl U hash.pl U
hw1 > hash.pl
1  #!/usr/bin/perl
2  my @stopwords = qw(a an the that this these those am is are was were be being been);
3  my %stopwords;
4  foreach $word (@stopwords) {
5      $stopwords{$word} = undef
6  }
7  print $ARGV[0], ' ';
8  foreach $word (@ARGV[1..$#ARGV]) {
9      unless (exists $stopwords{lc($word)}) {
10          print $word, ' ';
11      }
12  }
13  print "\n"
14

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS bash - hw1 + - X | X X
● rthompson@DESKTOP-EAHC8Q0:~/arizona/hlt538-computational_linguistics/hw1$ perl hash.pl The the THESE apples, are are the BEST test
The apples, BEST test
● rthompson@DESKTOP-EAHC8Q0:~/arizona/hlt538-computational_linguistics/hw1$ perl hash.pl The sentence to be altered goes here without quotes.
The sentence to altered goes here without quotes.
● rthompson@DESKTOP-EAHC8Q0:~/arizona/hlt538-computational_linguistics/hw1$ perl hash.pl Is this sentence unreadable?
Is sentence unreadable?
○ rthompson@DESKTOP-EAHC8Q0:~/arizona/hlt538-computational_linguistics/hw1$
```

```
my @stopwords = qw(a an the that this these those am is are was were be being been);
my %stopwords;
foreach $word (@stopwords) {
    $stopwords{$word} = undef
}
print $ARGV[0], ' ';
foreach $word (@ARGV[1..$#ARGV]) {
    unless (exists $stopwords{lc($word)}) {
        print $word, ' ';
    }
}
print "\n"
```

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""