

Karl Estes 11467854  
CPTS 224 Homework  
10/28/18

**1. Find a regular expression that will allow you to grep for all lines containing words that start with "H" and end with "d".**

```
karl@karl-VirtualBox:~/Documents/CPTS224$ grep -i '[ ]H[a-z]*d' jabText  
He took his vorpal sword in hand:  
He left it dead, and with its head
```

(NOTE: I chose to do case insensitive since no words started with a capital 'H' and ended with a lowercase 'd')

**2. Find a regular expression that will match all lines containing a capital "T", but not if capital "T" is the first character in the line.**

```
karl@karl-VirtualBox:~/Documents/CPTS224$ grep '[^T]' jabText  
'Twas brillig, and the slithy toves  
So rested he by the Tumtum tree  
'Twas brillig, and the slithy toves
```

**3. Using sed, replace "'Twas" with "It certainly was" (notice the apostrophe before the 'T').**

```
karl@karl-VirtualBox:~/Documents/CPTS224$ sed "s/'Twas/It certainly was/g" jabText >  
jabText1
```

(The following is what the text in jabText1 appeared as):

It certainly was brillig, and the slithy toves  
Did gyre and gimble in the wabe;  
All mimsy were the borogoves,  
And the mome raths outgrabe.

"Beware the Jabberwock, my son!  
The jaws that bite, the claws that catch!  
Beware the Jubjub bird, and shun  
The frumious Bandersnatch!"

He took his vorpal sword in hand:  
Long time the manxome foe he sought--  
So rested he by the Tumtum tree,  
And stood awhile in thought.

And, as in uffish thought he stood,  
The Jabberwock, with eyes of flame,  
Came whiffing through the tulgey wood,

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And burbled as it came!

One two! One two! And through and through  
The vorpal blade went snicker-snack!  
He left it dead, and with its head  
He went galumphing back.

"And hast thou slain the Jabberwock?  
Come to my arms, my beamish boy!  
O frabjous day! Callooh! Callay!"  
He chortled in his joy.

It certainly was brillig, and the slithy toves  
Did gyre and gimble in the wabe;  
All mimsy were the borogoves,  
And the mome raths outgrabe.

**4. Using sed, replace all occurrences of "the" or "The" with "a" or "A" (preserving the capitalization of the original).**

```
karl@karl-VirtualBox:~/Documents/CPTS224$ sed "s/the/a/g;s/The/A/g" jabText>jabText2
```

(The following is what the text in jabText2 appeared as):

'Twas brillig, and a slithy toves  
Did gyre and gimble in a wabe;  
All mimsy were a borogoves,  
And a mome raths outgrabe.

"Beware a Jabberwock, my son!  
A jaws that bite, a claws that catch!  
Beware a Jubjub bird, and shun  
A frumious Bandersnatch!"

He took his vorpal sword in hand:  
Long time a manxome foe he sought--  
So rested he by a Tumtum tree,  
And stood awhile in thought.

And, as in uffish thought he stood,  
A Jabberwock, with eyes of flame,  
Came whiffing through a tulgey wood,  
And burbled as it came!

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One two! One two! And through and through  
A vorpal blade went snicker-snack!  
He left it dead, and with its head  
He went galumphing back.

"And hast thou slain a Jabberwock?  
Come to my arms, my beamish boy!  
O frabjous day! Callooh! Callay!"  
He chortled in his joy.

'Twas brillig, and a slithy toves  
Did gyre and gimble in a wabe;  
All mimsy were a borogoves,  
And a mome raths outgrabe.

**5. Find all of the punctuation marks used in the poem, and give a count of the number of occurrences of each. (Hint: you can do something similar to the "tr + sort" word count example in the notes.)**

```
karl@karl-VirtualBox:~/Documents/CPTS224$ grep -i -o '[^A-Z]' jabText |  
grep '[^ ]' |  
sort |  
uniq -c
```

```
3 -  
15 ,  
2 ;  
1 :  
11 !  
1 ?  
5 .  
2 '  
4 "
```