

ads1-hw-examples (/github/BenLangmead/ads1-hw-examples/tree/master)
/ hw2_bm_with_counts.ipynb (/github/BenLangmead/ads1-hw-examples/tree/master/hw2_bm_with_counts.ipynb)

```
In [1]: # Implement boyer_moore_with_counts by extending boyer_moore function
from bm_with_counts import boyer_moore_with_counts
from bm_preproc import BoyerMoore
```

Example 1

```
In [2]: p = 'word'
t = 'there would have been a time for such a word'
lowercase_alphabet = 'abcdefghijklmnopqrstuvwxyz '
p_bm = BoyerMoore(p, lowercase_alphabet)
occurrences, num_alignments, num_character_comparisons = boyer_moore_with_counts(p, p_bm, t)
print(occurrences, num_alignments, num_character_comparisons)

([40], 12, 15)
```

Example 2

```
In [3]: p = 'needle'
t = 'needle need noodle needle'
p_bm = BoyerMoore(p, lowercase_alphabet)
occurrences, num_alignments, num_character_comparisons = boyer_moore_with_counts(p, p_bm, t)
print(occurrences, num_alignments, num_character_comparisons)

([0, 19], 5, 18)
```

