

# Programming Assignment 4 - Little Search Engine

## Test Cases

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### getKeyword (pts: 3,3,3,2,2)

1. sWord  
Ans: sword
2. paraphrase;  
Ans: paraphrase
3. really?!?!  
Ans: really
4. Between,  
Ans: null
5. either:or  
Ans: null

### loadKeywordsFromDocument (pts: 6,7,7)

1. Lots of noise - [pohlx.txt](#)
2. Lots of keywords - [Tyger.txt](#)
3. Repetition of keywords - [jude.txt](#)

### insertLastOccurrence (pts: 2,3,2,3,2)

1. Extreme left insertion  
Frequencies: [82,76,71,71,70,65,61,56,54,51,48,45,41,36,34,30,25,20,20,18,17,17,14,12,**85**]  
Ans: [11,5,2,0]
2. Extreme right insertion  
Frequencies: [82,76,71,71,70,65,61,56,54,51,48,45,41,36,34,30,25,20,20,18,17,17,14,12,**4**]  
Ans: [11,17,20,22,23]
3. In between test 1  
Frequencies: [82,76,71,71,70,65,61,56,54,51,48,45,41,36,34,30,25,20,20,18,17,17,14,12,**50**]  
Ans: [11,5,8,9,10]
4. In between test 2  
Frequencies: [82,76,71,71,70,65,61,56,54,51,48,45,41,36,34,30,25,20,20,18,17,17,14,12,**26**]  
Ans: [11,17,14,15,16]
5. Insertion with a frequency match  
Frequencies: [82,76,71,71,70,65,61,56,54,51,48,45,41,36,34,30,25,20,20,18,17,17,14,12,**17**]  
Ans: [11,17,20]

### mergeKeywords (pts: 7,9,9)

1. Single document - [metamorphosis.txt](#)
2. 2 documents with no intersection - [Tyger.txt](#) and [metamorphosis.txt](#)
3. 2 documents with a few intersections - [pohlx.txt](#) and [pohly.txt](#)

### top5Search (pts: 3,4,7,8,8)

docs to use: [doc1.txt](#), [doc2.txt](#), [doc3.txt](#), [doc4.txt](#), [doc5.txt](#), [doc6.txt](#), [doc7.txt](#) and [doc8.txt](#).

1. No matches for either  
Keywords: strange (no match), case (no match)  
Ans: no list
2. No match for 1 keyword, but more than 5 total matches  
Keywords: color (doc5,3,7,2,4,1), strange (No match)  
Ans: doc5,3,7,2,4 (1 pt penalty if > 5 results)

3. Matches on both keywords, no common docs, more than 5 total matches  
Keywords: orange (doc5,2,7,3,1), weird (doc6,8)  
Ans: doc5,6,2,8,7 (1 pt penalty if > 5 results)
4. 4 common docs, no common result frequencies, more than 5 total matches  
Keywords: red (doc3,2,4,1,7,6), orange (doc5,2,7,3,1)  
Ans: doc5,3,2,4,7 (2 pt penalty if > 5 results)
5. 2 docs in different lists with the same frequency, more than 5 results  
Keywords: red (doc3,2,4,1,7,6), car (doc1,3,7,6,4)  
Ans: (doc1,3,2,7,4) (doc4 freq matches doc6) (2 pt penalty if > 5 results)