

Recursive Algorithm for Finding ith Occurrence of a String in a String

1. **if** occurrence is reached to 0
2. return subtraction of length of the key index from main index + 1
3. **if** the key index is reached to end of the key
4. Set main index to next index beginning of the key string in the main string and recursively call the function.
5. **If** the main index is reached to end of the main
6. return -1
7. **If** the char at the main index in the main String equals to the char at the key index in the key String
8. Increase both key and main index by 1 and recursively call the function.
9. **else** // the chars are not equal
10. Set key index to 0, increase main index by 1 and recursively call the function.