

Answer the following questions in the language of your choice. Please write production ready code (this includes comments, etc).

- 1) Write a function that reverses the order of words of a sentence.
- 2) Create your own class or a set of functions that implement a stack. Include the following four methods:
 - a. Push: Adds a data element to the top of the stack
 - b. Pop: Removes a data element from the top of the stack
 - c. Size: Returns the total number of elements in the stack
 - d. isEmpty: Returns true if the stack is empty.
- 3) Write a function $f(a, b)$ which takes two character string arguments and returns a string containing only the characters found in both strings.