REVERSE\_SENTENCE (S)

//this funtion takes a string as a parameter and it

//outputs the string reversing the words in it

endWord<-lengthOfString O(1)

for i<- lengthOfString down to 1 O(n)

//we go throw the string from the end to the start

if S[i]=space OR i=1 O(n)

//if we encounter a space or the string has ended

//we get the position from where to display the word

startWord<-i+1 O(n)

//the position is the first character after the space

if i=1 O(n)

startWord<-i O(n)

//if we are at the start we get that exact position

//because a sentence does not start/end with a space

for j<-startWord to endWord O(n\*n)

print S[i] O(n\*n)

//outputs char by char from the start to the end of the word

if i≠1 O(n)

print space O(n)

endWord<-i-1 O(n)

//outputs a space after the word (if is not the first one in the string) and

//the next ending position will be the

//first char in front of the space

BigO: O(2n^2+8n+1)=O(n^2)