# Assessment D

The space and time complexity of the doBracketsMatch function is O(n).

Each of the functions isEmpty, push, pop and check (therefore also isSymbol) are linear functions, meaning their space and time complexity is O(1). Each of these functions has a certain number of steps to be performed no matter the input.

The for loop inside doBracketsMatch is dependent on the length of the inputString variable. Thus, it has a complexity of O(n). Although there are many function calls inside the doBracketsMatch function, all these other functions’ complexities are O(1) and therefore the complexity of doBracketsMatch stays O(n).