The function did nd engr recurrively taken a list of integers data and an optional arguement maxiv. A returns a tuple containing two values: a list of integers and the maximum value of the expression acide 6 Es 2" The function length of the input lind in 1. networn the Ant and -inf as the maximum value. If the length of the input list is 2. calculate the value of the expression for these two elements and neturn the list and this value or the maximum value. Otherwise, divide the input linto into two halver and receverively eal dvd.nd-engr on each half. Menge the two norted lints of expressions the maximum value of expressions The time complexity of this algorithm can be exprend as Ten = 2T(n/2) + O(n), where m is the length of the input lint. By noting it using the marter theorem, the time complexity of in O(nlogn) for thin algorithm