**recurse**

I completed this challenge using a combination of dynamic analysis and python. Recurse only returns 1 if num1 and num2 sum to 116369 and num3 is 16 (please see python script). Through dynamic analysis, I saw that the numbers (when testing numbers going up in value, starting with 1, 1) approached 116369 quickly when going through the recurse and absolutely not useless functions. Therefore, I translated the entire c code from ghidra into python and ran a python script that did the same thing as the program being analyzed. I looped through all possible values from 1 to 100 for both values and found the answer. In other words, I used brute force to obtain the answer.