Activity 1. Stack Overflow Exception

The complexity of the classes Subtraction1 is O(n) and Subtraction2 is O(n^2)

Subtraction1 and Subtraction2 stops giving values after n = 16384 and n = 32768 respectively as they are adding values to the stack faster that it can process them throwing a stack overflow error when there is no more space in the stack.

Activity 2. Subtraction3 approximation for n = 80

Taking into account the complexity of the Subtraction 3, O(2^n), we can approximate the time it would take to execute for n = 80 as 2^80 = 1.209\*10^24 ms.

(1,208,925,819,614,629,174,706,176)

Activity 3. Subtraction4 and Subtraction5 tables

Activity 2. [TITLE OF THE ACTIVITY]