5.)
Params: arrayOfInts S, int val

1.) Sort array S
2.) Create variables x and y to hold first and last elements of array respectively
3.) Add x and y
4.) Compare sum of x and y to val
    a.) if match return true and exit
    b.) if sum > val
        a. Decrease y and repeat
    c.) if sum < val
        b. increase x and repeat
5.) Continue process until x => y

Algorithm in action on array S ={12,3,4,15,11,7} and val=20

1.) S={3,4,7,11,12,15}
2.) x=3 y=15
3.) 18
4.) Compare
    a. 18 = 20 X
    b. 18 > 20 X
    c. 18 < 20 ✓
5.) x=4 y=15
6.) 19
7.) Compare
    a. 19 = 20 X
    b. 19 > 20 X
    c. 19 < 20 ✓
8.) x=7 y=15
9.) 22
10.) Compare
    a. 22 = 20 X
    b. 22 > 20 ✓
11.)x=7 y=12
12.)19
13.)for simplicity we know this doesn't work already from line 6
14.)11 and 12 would be up next…then 12 and 12 but because x is greater than or equal to y, the program would end.