Date: 1 1

Week #3

array S[n] , n int's

a + b + c = 0 , Find all? (more than 1)

ex) S = [-1, 0, 1, 2, -1, -4]

Solutions:

[[-1, 0, -1], [-1, -1, 2]]

S

Sort array {-4, -1, -1, 0, 1, 2}

- chose a & b

a = -4 +4 +1 = 5

b = -1 ^ ^

c = -(a+b) = -a-b

- search for value -(a+b) in array

if (found)

add to solution set

else

dont add to set

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Test Cases

Input	result	
Null	null pointer	Null
[ ]	empty	Null
[1, 2, 3]	incorrect	Null
[-1, -1, 0]	[[-1, -1, 0]]	single solution
[-3, 1, 2, 3, -6, 3]	[[-6, 3, 3], [1, 2, -3]]	multiple solutions
[-3, 1, 2, 1, 2, -3]	[[-3, 1, 2]]	duplicate
[1, 2, 3, 4, 5, 6]	non solution	Null