Spring 2022

Section C: Algorithms Analysis

3) (10 pts) ANL (Summations)

With proof, find the ordered pair of values (a, b) which satisfy the equation below?

$$\sum_{k=1}^{2n} (ak+b) = 7n^2 + 3n$$

Computer Science Foundation Exam

January 15, 2022

Section D

ALGORITHMS

NO books, notes, or calculators may be used, and you must work entirely on your own.

Name:	 		
UCFID: _	 	 	
NID:			

Question #	Max Pts	Category	Score
1	5	DSN	
2	10	ANL	
3	10	ALG	
TOTAL	25		

You must do all 3 problems in this section of the exam.

Problems will be graded based on the completeness of the solution steps and <u>not</u> graded based on the answer alone. Credit cannot be given unless all work is shown and is readable. Be complete, yet concise, and above all <u>be neat</u>. For each coding question, assume that all of the necessary includes (stdlib, stdio, math, string) for that particular question have been made.