EXAMINATION BLUE BOOK

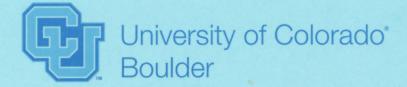
NAME Austin Criffith

SUBJECT Algorithms

INSTRUCTOR Professor Chen

EXAM SEAT NO. SECTION Sebasation (TA)

DATE 10/18/17 GRADE 45/100



Honor Code Pledge

On my honor, as a University of Colorado Boulder student, I have neither given nor received unauthorized assistance on this work.

Signature

10/18/17

Be prepared. Be successful. Be spirited.



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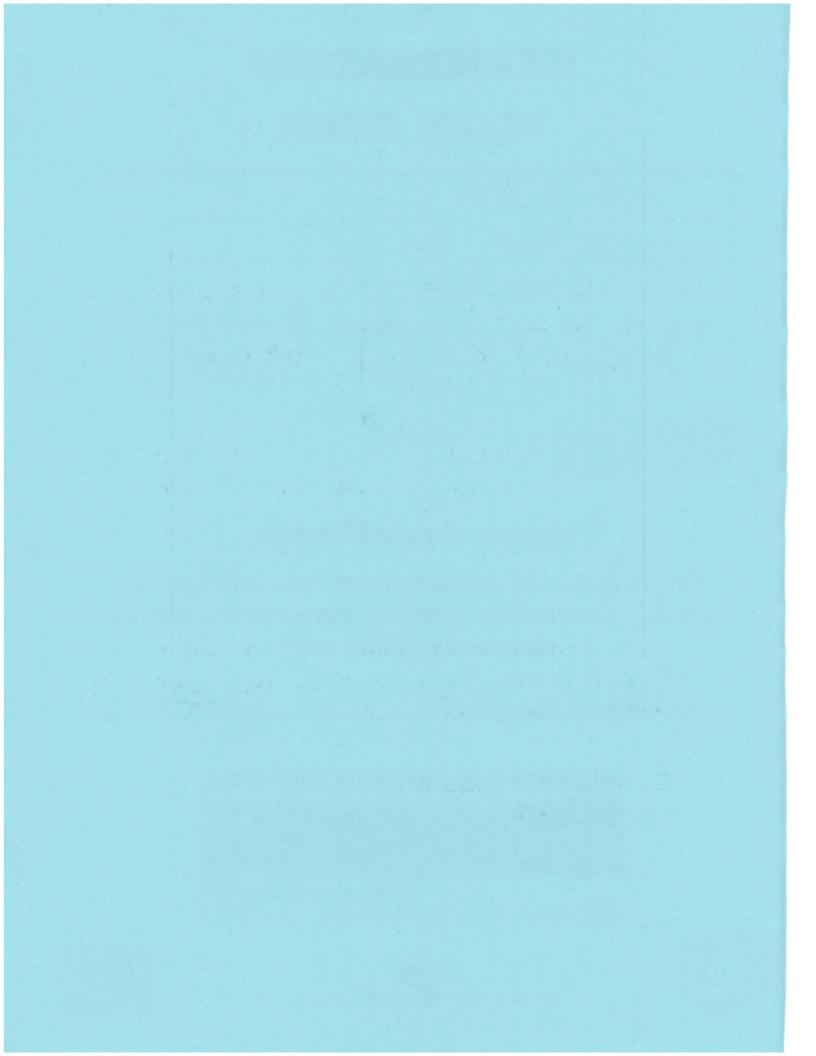
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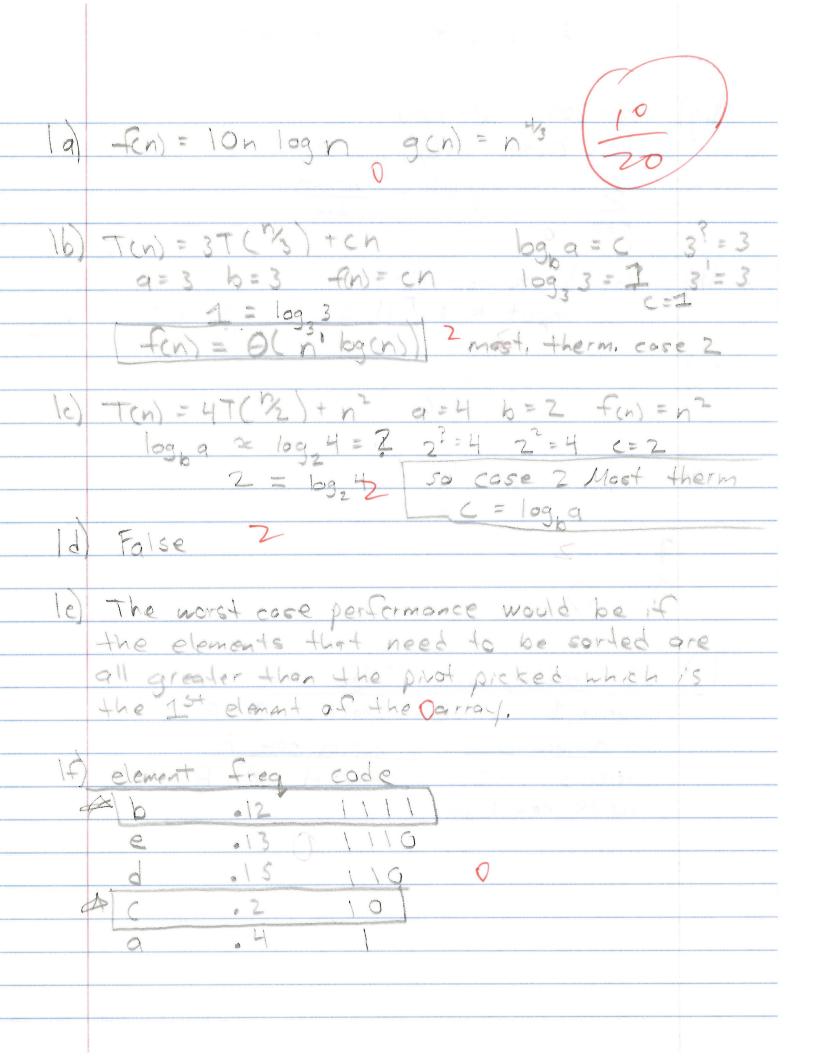


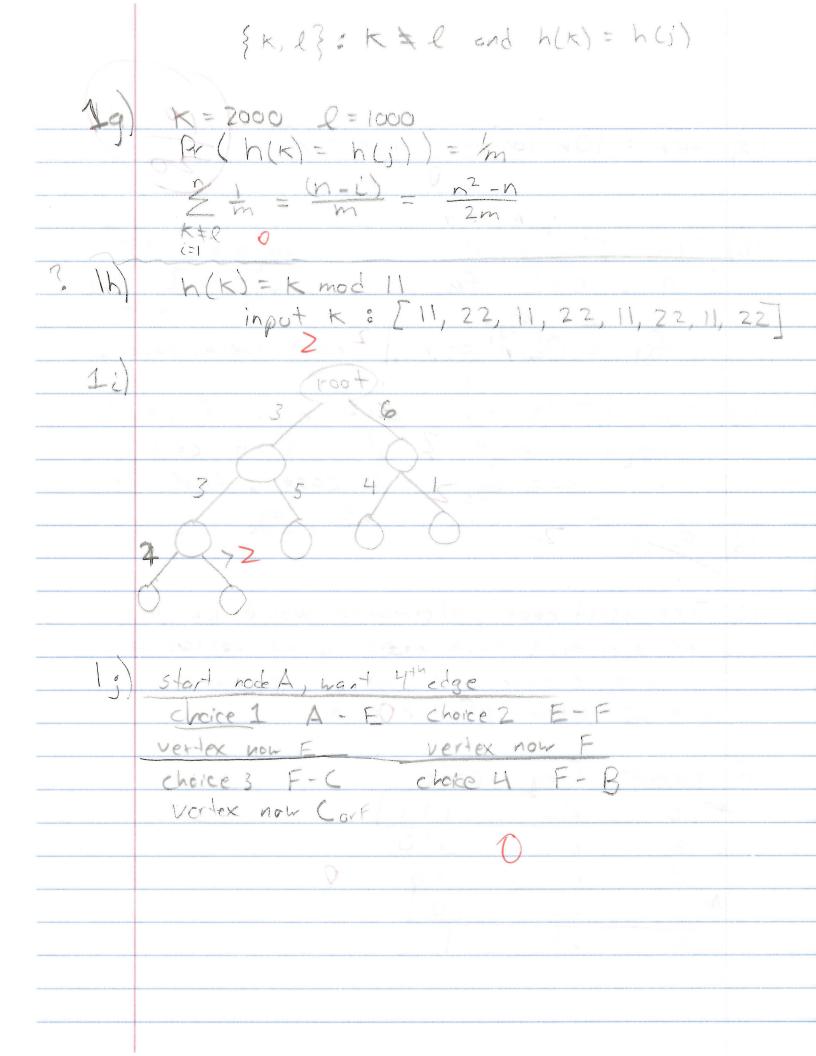


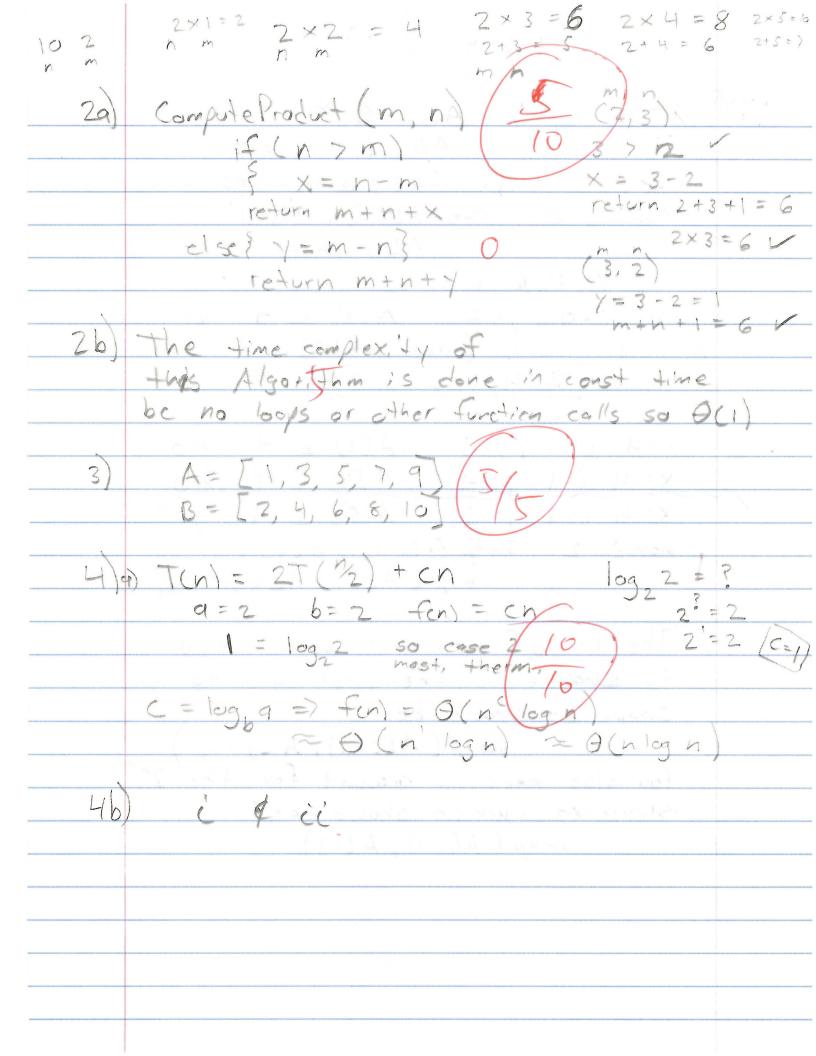
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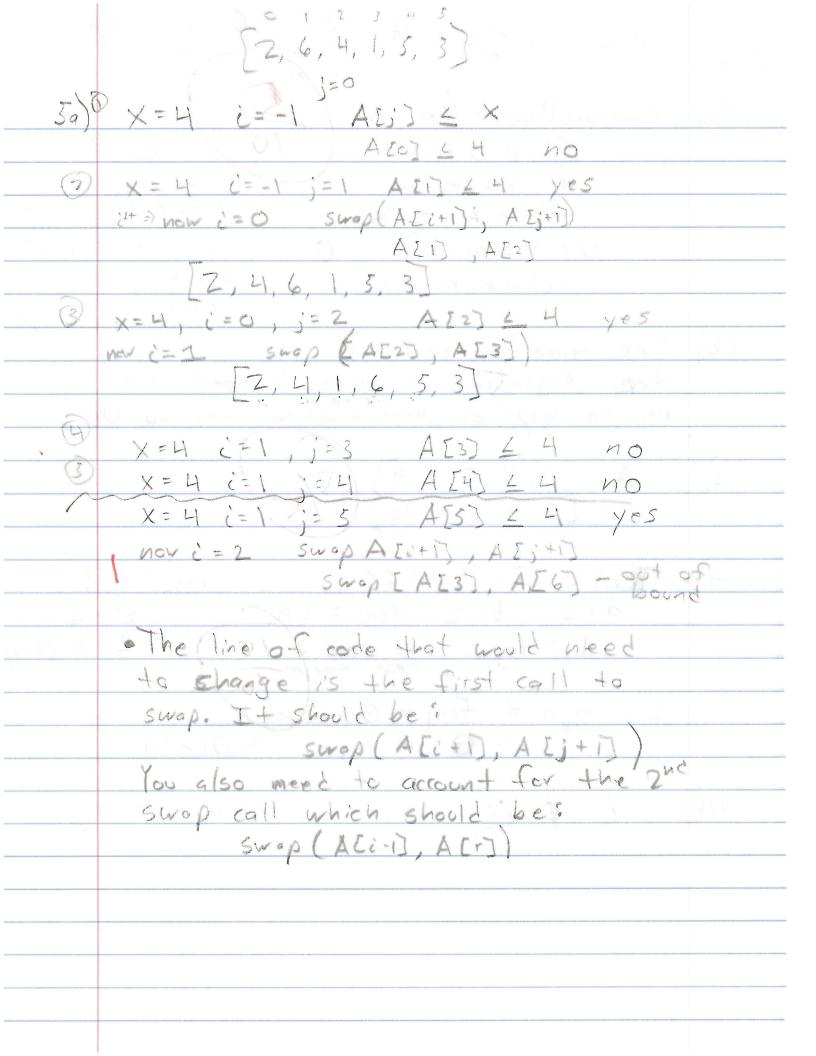
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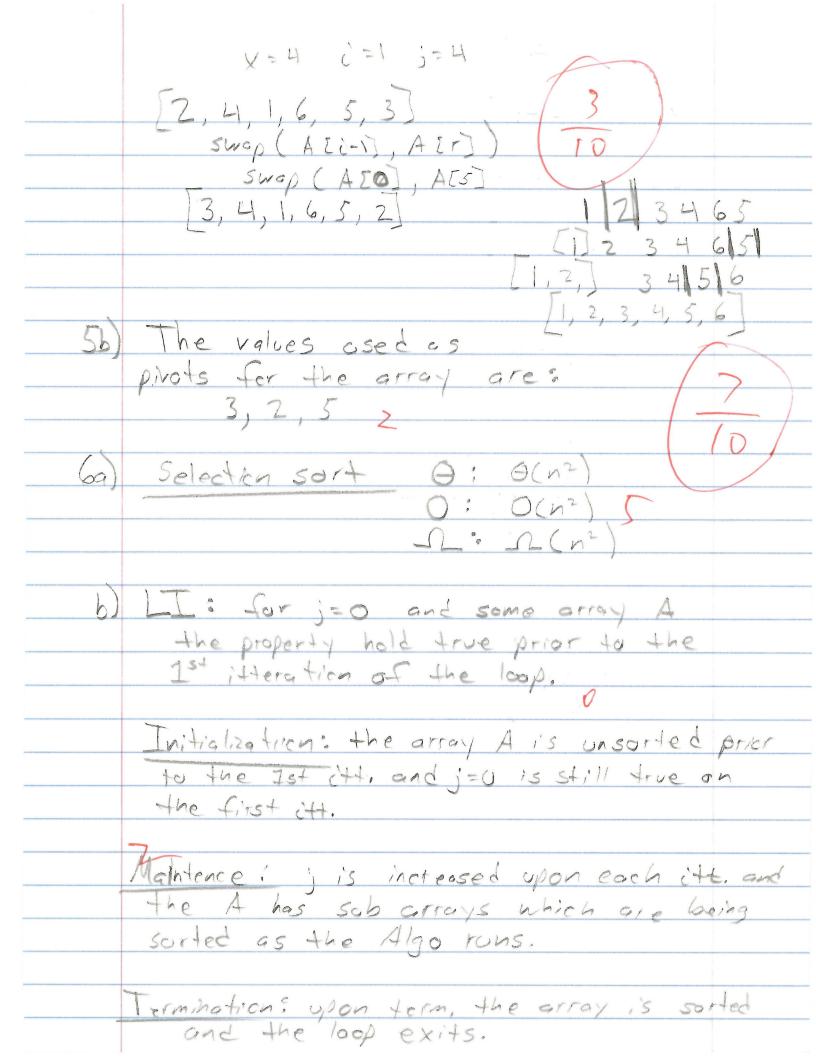












$$A = [a_1, a_2, \dots, a_n]$$

$$B = [b_1, \dots, b_n]$$

Alga (A, B) the neadive for (i=0 to length(A)) (138 20 if (A [i] == negative of B[i] OR E sum = A[i] + B[i]

explain: itterate through array A and B to check if any values are equal regardless of sign and take negate. If 2 exsits in A check if negotive of -2 is in B so 2=2 and will know one value is negative so added together will be zero

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Base Case: T(0)=0 T(1)=2 = $\log_2 2$ so cose 2 most, therm => $\theta(n \log n)$

