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INTRODUCTION TO ALGORITHMS MASSACHUSETTS INSTITUTE OF TECHNOLOGY 6 006 SPRING 2020 INSTRUCTORS ERIK DEMAINE JASON KU AND JUSTIN SOLOMON SOLUTION FINAL SOLUTION FINAL DO NOT OPEN THIS QUIZ BOOKLET UNTIL DIRECTED TO DO SO READ ALL THE INSTRUCTIONS ON THIS PAGE 1 SHORT ANSWER THE FOLLOWING THREE QUESTIONS ARE ALL TRUE FALSE OR SHORT ANSWER NO JUSTIFICATION IS REQUIRED QUESTION 1 TRUE FALSE 15 POINTS F N F N 2 O F N 2 FOR ANY FUNCTION P TRUE FALSE SOLUTION F F N F N 2 N SINCE TAKES VALUES ONLY IN THE NATURAL NUMBERS FOR ANY COMMON MISTAKES F MATH 241 SPRING 2022 FINAL EXAM WITH SOLUTIONS BE SURE YOUR NAME SECTION NUMBER AND PROBLEM NUMBER ARE ON EACH ANSWER SHEET AND THAT YOU HAVE COPIED AND SIGNED THE HONOR PLEDGE ON THE RST ANSWER SHEET FOLLOW THE INSTRUCTIONS AS TO WHICH PROBLEM GOES ON WHICH ANSWER SHEET FINAL EXAM SOLUTIONS 1 INITIALIZATION DON T FORGET TO DO THIS 2 MEMORY USAGE A 3 276 800 100 215 THE RUNNING TIME FOR V E 80 IS 102400 100 210 GOING DOWN ONE ROW MAKES THE RUNNING TIME GO UP BY A FACTOR OF 2 GOING RIGHT ONE COLUMN MAKES THE RUNNING TIME GO UP BY A FACTOR OF 8 PRACTICE FINAL EXAM SOLUTIONS LINEAR ALGEBRA 110 201 SPRING 2021 W STEPHEN WILSON NAME TA NAME AND SECTION OPEN BOOK YOU CAN PRINT OUT THE EXAM AND WORK IT AND THEN UPLOAD IT OR YOU CAN WORK ON YOUR OWN PAPER AND UPLOAD IT JUST BE VERY CLEAR ABOUT WHAT YOU ARE DOING IF YOU GO THAT WAY YOU MUST SHOW YOUR WORK 1 2 POINTS LET C IN ANY OPTIMAL PRE X FREE CODE SUCH AS A HU MAN CODE EVERY NODE IS EITHER A LEAF NODE CONTAINING A SYMBOL AND NO CHILDREN OR AN INTERNAL NODE WITH TWO CHILDREN IF ONE CODEWORD 1 MTH 234 SOLUTIONS TO FINAL EXAM MAY 1ST 2018 STANDARD RESPONSE QUESTIONS SHOW ALL WORK TO RECEIVE CREDIT PLEASE BOX YOUR NAL ANSWER 1 4 POINTS FIND AN EQUATION OF A PLANE THAT CONTAINS THE POINT 1 2 3 AND IS NORMAL TO THE LINE L T H3T 1 T OI FINAL EXAM SOLUTIONS MAT 104 PROBLEM 1 8 POINTS COMPUTE THE FOLLOWING INTEGRALS $\int x \, dx$ 1 $\int x^2 \, dx$ 2 SOLUTION $\int x \, dx = \frac{1}{2} x^2$ 3 2 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