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A BROAD AND ROBUST UNDERSTANDING OF COMPUTER SCIENCE AND PROGRAMMING HOW TO THINK ALGORITHMICALLY AND SOLVE PROGRAMMING PROBLEMS EFFICIENTLY CONCEPTS LIKE ABSTRACTION ALGORITHMS DATA STRUCTURES ENCAPSULATION RESOURCE MANAGEMENT SECURITY SOFTWARE ENGINEERING AND WEB DEVELOPMENT INTRODUCTION TO COMPUTER SCIENCE FROM HARVARD BETTER KNOWN AS CS50 IS THE LARGEST COURSE ON THE HARVARD CAMPUS AND MORE THAN 4 000 000 LEARNERS WORLDWIDE HAVE REGISTERED FOR THE COURSE ON EDX COMPUTER SCIENCE IS A BROAD FIELD THAT ENCOMPASSES EVERYTHING FROM COMPUTER SYSTEMS AND NETWORKS TO CYBERSECURITY COMPUTER SCIENTISTS MAY WORK AS SOFTWARE DEVELOPERS COMPUTER SYSTEMS ANALYSTS DATABASE ADMINISTRATORS OR OTHER CAREERS RELATED TO THE WAY SOFTWARE SYSTEMS OPERATE IF YOU ARE INTERESTED IN ENTERING THE IN DEMAND AND HIGH GROWTH LIKE ENGINEERS THEY DESIGN THINGS ASSEMBLING COMPONENTS INTO SYSTEMS AND EVALUATING TRADE OFFS AMONG ALTERNATIVES LIKE SCIENTISTS THEY OBSERVE THE BEHAVIOR OF COMPLEX SYSTEMS FORM HYPOTHESES AND TEST PREDICTIONS THE SINGLE MOST IMPORTANT SKILL FOR A COMPUTER SCIENTIST IS PROBLEM SOLVING THE M S DEGREE IN COMPUTER SCIENCE IS INTENDED AS A TERMINAL PROFESSIONAL DEGREE AND DOES NOT LEAD TO THE PH D DEGREE MOST STUDENTS PLANNING TO OBTAIN THE PH D DEGREE SHOULD APPLY DIRECTLY FOR ADMISSION TO THE PH D PROGRAM SOME STUDENTS HOWEVER MAY WISH TO COMPLETE THE MASTER S PROGRAM BEFORE DECIDING WHETHER TO PURSUE THE PH D TO GIVE SUCH STUDENTS A GREATER OPPORTUNITY TO BECOME STUDENTS WISHING TO PURSUE A PH D IN COMPUTER SCIENCE GENERALLY TAKE 4 5 YEARS TO COMPLETE THE DEGREE WHICH USUALLY REQUIRES 72 90 CREDITS LEARNERS CAN DEVOTE THEIR STUDIES TO GENERAL COMPUTER SCIENCE OR CHOOSE A SPECIALTY AREA SUCH AS ONE OF THE FOLLOWING COMPUTER SCIENCE ALGORITHMS COMBINATORICS AND OPTIMIZATION

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