

CALIFORNIA STATE SCIENCE FAIR 2004 PROJECT SUMMARY

Name(s)	Project Number
Deanna Lynn McKinstry	J1215
Project Title	
Goldbach's Conjecture: True or False?	
Objectives/Goals Abstract	
 To find out if there is a number that will disprove Goldbachs Conjecture, which states that every even number greater than 2 is the computer program to test numbers from 4 x 10 to the 14th power thr Methods/Materials Microsoft Qbasic Microsoft Visual Basic Dell 1.9 GHZ Pentium 4 Computer with 256 MB of RAM 	
 Floppy Disk Elementary Basic: Learning to Program Your Computer in Basic w Sherlock Holmes by Henry Ledgard and Andrew Singer, 1982 	ith
 Learn how to program with help from Elementary Basic and comp scientist Find out what numbers have already been tested to see if they are Write the program Test, revise, and fix the program Run the program for 29 days 	
 Results The program took 29 days to search from 4 x 10 to the 14th power through 400000001068266 and the program did not find a number that disproves Goldbachs Conjuncture. Conclusions/Discussion The results did support my hypothesis which stated that there is not a number (in the numbers searched) that will disprove Goldbachs Conjecture. The information gained in this subject expanded our knowledge about mathmatics by using modern technology to test an old theory. 	
Summary Statement My project tries to disprove Goldbach's Conjecture using a computer program.	
Help Received	
Father taught me how to program.	