

CALIFORNIA STATE SCIENCE FAIR 2013 PROJECT SUMMARY

Project Title The Randomness of Humans and Computers Objectives/Goals The purpose of this project is to determine whether humans or computers casequence of numbers without the use of any materials. Randomness can be such as choosing a random number for a game. Methods/Materials This project tested randomness in sets of 100 numbers. There were 60 sets a sets generated by computers. The computers generated random by using the Java, which is a commonly known linear congruential generator. The huma each subject write down 100 numbers that they believed to be random. The through a statistical test called the serial correlation analysis. This test check the numbers. The closer the score was to 0, the better the source generated to the statistical tests were not very accurate because a set of 100 numbers way determine if there was a significant correlation. Further research should inc with a certain group of humans. The result of using a diverse group of human concentrated group, such as a certain job like a mathematics professor who	I
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	In generate a more random applied to almost anything, generated by humans and 60 Math.random() method from n side was tested by having numbers were then ran ts for any repeating patterns in andom. e efficiently than the humans. s not large enough to ude testing with bigger sets, or ins might be different than a often deal with numbers.
Summary Statement This project will test how well a person can generate randomness without a a commonly used computer generated algorithm.	ny resources in comparison to