

CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

Name(s)	Project Number
Erin M. deCastongrene	
ET IN M. de Castongrene	
	36631
Project Title	$\langle \mathcal{O} \rangle$
Pegs and Programming	
	$\sim \sqrt{2}$
Abstract (Cash	
Objectives/Goals The objective of my project was to write a computer program that models peg	ditained wanted to make
the program learn to get better at the game over time.	i wanted to make
Methods/Materials	\smile
Laptop computer with Snap! programming language, which is barel on Scratc Snap! that models peg solitaire and learns through trial and error then tested h	ch. wrote a program using
Results	see if it improved.
My program was very successful at learning to get better at res solitaire. The from its starting win percentage to its win percentage after trating it with the la	e was a substantial increase
from its starting win percentage to its win percentage after testing it with the le	earning software.
Conclusions/Discussion	nd error to get better at the
I built a software model of peg solitaire that successfully learns through trial a game. After many trials, the program performed better than it distinitally. Sin	ce it was improving, my
program is proved to be working.	1 27 5
Summary Statement	
I wrote the effective tomputer program that models peg solitaire and learns to i	improve.
Help Received	
I designed and built the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from my father, a construction of the program myself after an overview from myself after an over	omputer scientist, on his
programming process.	