



Embedded Software

CS 145/145L



Caio Batista de Melo

Project 5



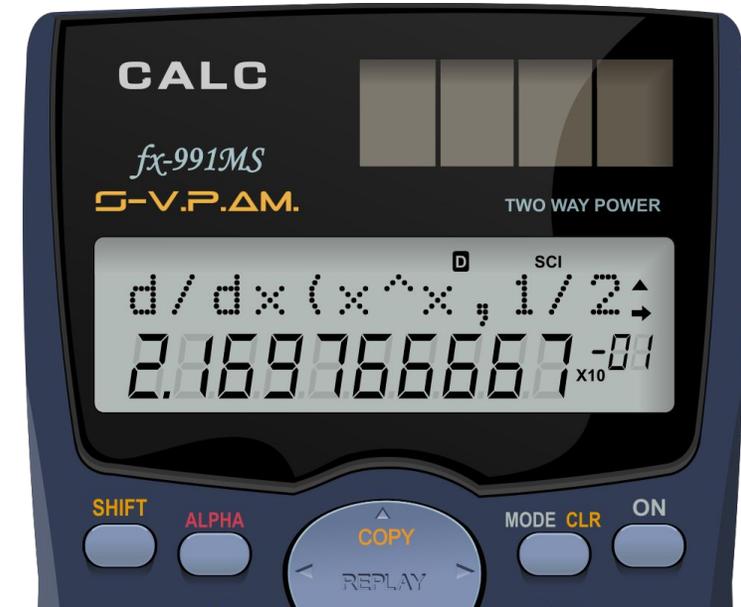
- Due date: 2022-06-10
 - Extra credit for early submission: 2022-06-04
- Warnings
 - Monday of Week 10 is a holiday;
 - No labs during finals week;
 - Plan ahead!
- No hard specification
 - If you have some fun idea to use the parts/functions we have covered you're free to do that;
 - You can check with the staff to make sure your idea isn't too simple, but not required.
- <https://canvas.eee.uci.edu/courses/45047/assignments/929276>



Project 5 Ideas - Calculator



- Process an input string with operations in-place
 - $()$, $*$, $/$, $+$, $-$
- Negative results;
- Floating-point results;
- Follow order of operations.



Project 5 Ideas - Alarm Clock



Basic features:

- Clock that displays and increments time (P2);
- Lets user define an alarm time;
- When it's the alarm time, play a sound (P3).

Plus at least 3 of the following:

- Timer
- World Clock
- Stopwatch
- Clock keeps ticking while alarm rings
- At least 5 alarm times
- Daylight Savings Time



Project 5 Ideas - Combination Lock



Basic features:

- Lock / unlock with a password;
- Allow user to change password;

Plus at least 3 of the following:

- Play sounds for actions;
- Lock-out mechanism;
- Manager password;
- Single-use passwords.



Project 5 Ideas - Music Player



- Play notes as the user plays it;
- Record at least 3 songs;
- Play back recorded songs.



Project 5 Ideas - Games



- Wordle;
- Hangman;
- `chrome://dino/`;
- Memory game;
- Must have randomness to it!

M	I	G	H	T
T	I	G	H	T
F	I	G	H	T
S	I	G	H	T
N	I	G	H	T
R	I	G	H	T

<https://www.newsweek.com/wordle-disaster-woman-share-game-ultimate-worst-thing-happened-1675305>



Q & A