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CSE 321

Algorithm Plan to Approach Problems

1- Read the project's instructions
- Determine and list all the project's requirements
- Determine the project's implementation goal
- Filter useful information from the project's instructions
- Come up with tasks to be done for the project

2- Plan how the project will look like hardware wise
- Determine what materials will be needed
- Understand the logic and behavior behind the hardware implementation
- Design a schematic circuit
- Test design (Repeat this process accordingly)

3- Plan how the project will look like software wise
- Understand the logic and behavior of the code needed
- Understand the inputs and outputs for the code
- Design code structure
- Design simple test cases for individual functions
- Design a test case for the overall code implementation

4- Implementation
- Build the circuit according to the schematic design
- Build the code based on the needed logic/behavior
- Test cases for the code (repeat code building accordingly)
- Test entire implementation (repeat this process accordingly)

5- Revision
- Does the project satisfy all the requirements?
- Does it have the behavior I expected?
- (If there is time) should I modify any part of my project to make it more efficient?