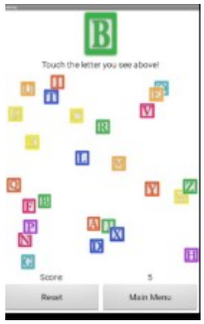
Create Prompt

Work with a partner to create an interactive app meaningful to you and/or society.



Dec 2-2:48 PM

Deliverables

- Write up
- Video
- Code

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Video

- Show the function not the code
- provider a narration that answers the prompts for 2a
- if you narrate, then you do not have to write 2a

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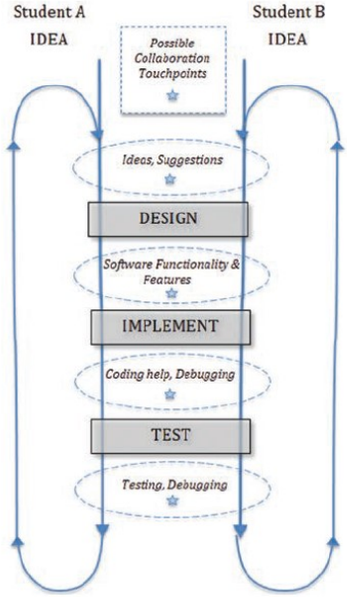
Collaboration

You can (encouraged to) collaborate

- However, the required abstraction and algorithms must be your own.



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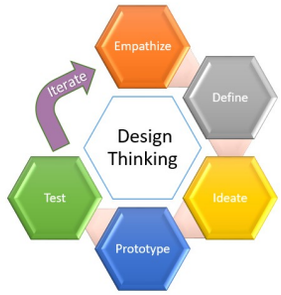
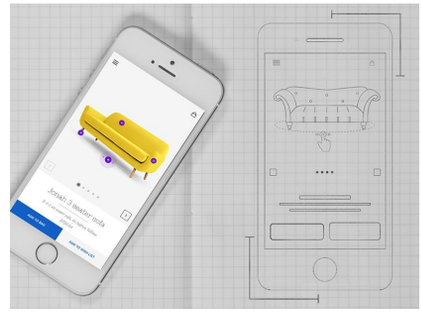
2B - Process

Iterative



Incremental



- Describe how you incorporate feedback into your process
- not just 2 problems you encountered

2C - Algorithm

Row 6

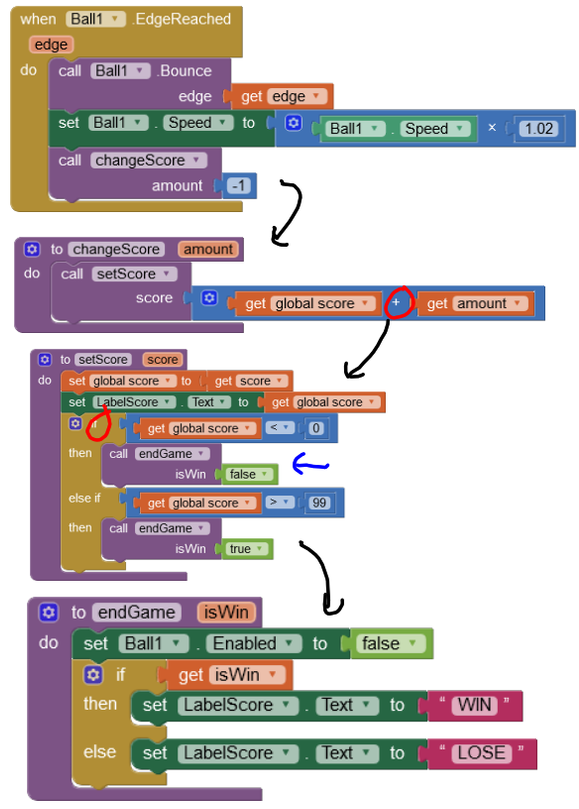
- Selected code segment implements an algorithm that includes at least two or more algorithms.

AND

- At least one of the included algorithms uses mathematical or logical concepts.

AND

- Explains how one of the included algorithms functions independently.

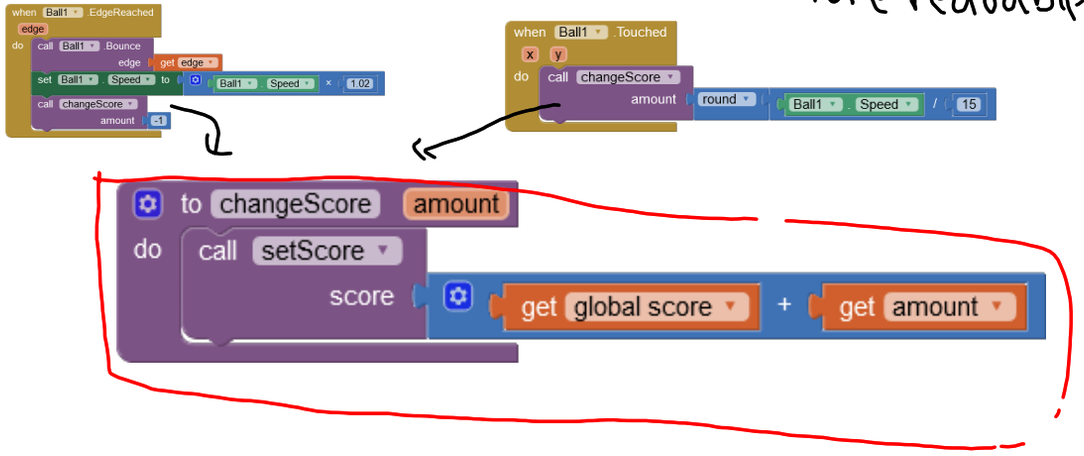


2D - Abstraction

- Selected code segment is a student-developed abstraction
- Explains how the selected abstraction manages the complexity of the program.

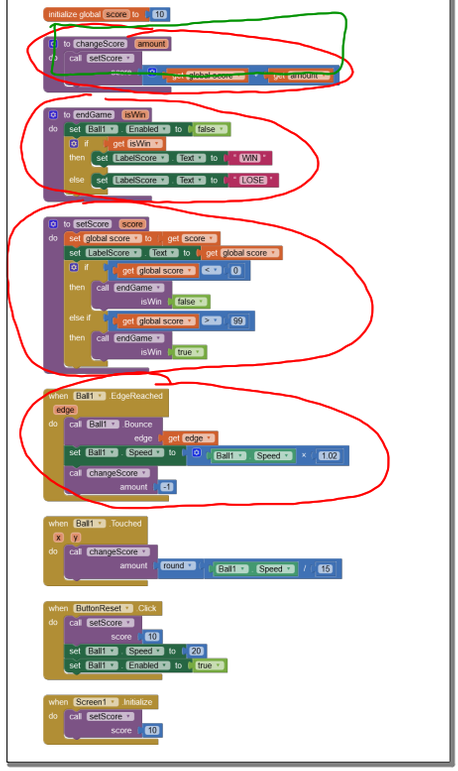
* called multiple places

* more readable



Code

- Oval around the algorithm
- rectangle around the abstraction
- keep it neat and readable



Grading

1. **[20%]** video demonstrates the running of at least one feature AND The audio narration identifies what the program is attempting to do.
2. **[10%]** 2B describes an incremental and iterative development process
3. **[10%]** 2B identifies at least two difficulties / opportunities AND describes how they are resolved or incorporated.
4. **[10%]** 2C shows how your code implements an algorithm.
5. **[10%]** 2C implements an algorithm that uses mathematical or logical concepts AND explains how it functions AND Describes what it does in relation to the overall purpose of the program
6. **[10%]** 2C implements an algorithm that includes two or more algorithms AND At least one mathematical or logical concepts AND Explains how one of the included algorithms functions independently.
7. **[15%]** 2D is a student-developed abstraction.
8. **[15%]** 2D Explains how the selected abstraction manages the complexity of the program.

Dec 2-3:13 PM

Common Errors

General

- No connections made to code or process
- Making statements without citing evidence in the code

Part 2A

- Video made with phone not screen capture
- Video showed code not function

Part 2B

- No evidence of an iterative process
- Only discussing 2 issues

Part 2C

- Not explaining the role of your algorithm in the overall functioning of the app
- Not providing code for included algorithms
- Not showing evidence for included algorithms
- Having multiple algorithms that do not have the inclusion relationship
- Not explicitly explaining where you use logic and math
- Not explicitly explaining how one included algorithm functions independently

Part 2D

- Not showing the code for the block you describe
- Not using parameters to make your block more general
- Saying your block manages complexity without explaining how