Below is each of the writing prompts and their sections for the AP Principles Report. Follow the directions, answers the prompts CONCISELY.

(3a) Provide a written response that does all three of the following:

<u>Purpose</u>: The problem being solved or creative interest being pursued through the program.

Functionality: The behavior of the program during execution and is often described by how a user interacts

with it.

BAD RESPONSES:

- Purpose is to meet the requirements of the exam.
- Wrote the same thing for the purpose and the function.

* Approx. 150 words TOTAL for all three sections below *

i) Describe the overall purpose of the program (short, straight to the point):

- ii) Describe what the functionality of the program is demonstrated in the video.
 - Logical, step-by-step of what is occurring in your CODE during the video.

- iii) Describe the input and output of the program demonstrated in the video.
 - Describe what the input/output represent in your CODE.

(3b) Capture and paste two program code segments you developed that contain a list (or other collection) being used to MANAGE COMPLEXITY in your program.

Manage Complexity:

You couldn't do it without a list. Meaning, you couldn't have used 20 variables instead because there could be 30, not because you're too lazy or its bad to use 20 variables.

BAD RESPONSES:

Use a list/array out of convience, such as instead of having 4 variables we just make an array, however the
order or position relative to one-another is never needed by the program.

* Approx. 200 words TOTAL for all three sections below *

i) Copy/paste an image showing HOW data have been stored in the list.

ii)	Copy/paste an image showing the data in the SAME LIST being USED, such as creating new data from the data in the list or accessing multiple elements in the list, as part of fulfilling the PROGRAM'S PURPOSE.
iii)	Identify the NAME of the list being used above.

iv)	Describe what the data in the list represents in your program (game/program terminology here).
v)	Explain how the list MANAGES COMPLEXITY in your program by explaining WHY your program
	could NOT be written, or how it would be majorly DIFFERENT if you did not use a list.
	 Do you understand the purpose of the list, and functionality it gives you that other data types
	do not have e.g., index and order of items, or position of items relative to other items.

- (3c) Capture and paste program code segments you developed that contain a student-developed procedure (i.e., METHOD) that implements an algorithm that uses SEQUENCE, SELECTION and ITERATION. This procedure must use at least one parameter that has an affects on the functionality of the procedure.
- Meaning the value in the parameter affects which lines of code execute, and which do not, through conditions in if-statements and/or loops.

BAD RESPONSES:

- The same line(s) of code execute, regardless of what the parameter value is.
- The method is ONLY ever called in ONE SCENARIO, thus only ever have one outcome.
 - * Approx. 200 words TOTAL for all three sections below *
- i) Copy/paste an image showing the procedure (method) that contains sequence, selection and iteration, and uses at least one parameter as described above.

- ii) Copy/paste an image showing where you CALL this procedure (method) in your program.
 - If its multiple spots, then put together one image that shows each location.

iii)	Describe in general WHAT the procedure does and how it contributes to the overall functionality of the program. WHAT is its purpose in the larger program, NOT what it specifically does inside the method
iv)	Explain in detailed steps HOW the algorithm in the procedure works. Your explanation must be detailed enough for someone else to recreate it. This is EXACTLY what we/I would write on the board in ENGLISH, the step-by-step logical SENTENCES that we would then later translate to code.
	SENTENCES that we would then later translate to code.

(3d) Provide a written response that does all three of the following.

BAD RESPONSES:

- The same lines of code execute in BOTH of your examples of calls to the method.
- In both examples, it will always be the same scenario. E.g., both locations will always be in bounds.
 - * Approx. 200 words TOTAL for all three sections below *
- Describes TWO different CALLS to the procedure (method) identified in the previous section. Each call must pass a DIFFERENT argument(s) that causes a DIFFERENT SEGEMENT (i.e., different line(s)) of code to execute or not execute.
 - Arguments means WHAT the actual values passed where in that scenario.

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SECOND CALL:

 I.e., if-statements and/or loops 	
FIRST CALL:	
SECOND CALL:	

ii) Describes what CONDITION(S) is being tested by each call to the procedure

 iii) Identify the RESULT of each call from previous section. I.e., what line(s) of code execute, and how this affects the rest of the program/game, including what is returned and its meaning, if it has a return. 			
FIRST CALL:			
SECOND CALL:			