

AP Computer Science Principles
Create Performance Task
Scoring Commentaries on 2021 Rubrics
(Applied to Pilot Student Responses)

Sample E (Screen Limiter)

3/6 Points

Row 1: 1 pt

The response earned the point for this row, meeting all six of the criteria:

- The video demonstrates the running of the programming, including user input through pressing buttons; functionality of the timer; start, stop, reset, and output through the timer; random minute allotments; and activity suggestions. This satisfies the first three criteria for the video.
- The response states that the program's overall purpose is "to address the issue of screen addiction in society, as users who record their usage are more conscious of their own addiction."
- The response describes functionality of timing screen usage and the activity button for "new alternatives to screen usage can be selected with the activities button."
- The response describes the program input and output as follows: "users are able to input the amount of time they spend on their screen each day," and, "they [users] can click the screen free challenge button to output an amount of time to go screen free. They also have the activity button which outputs different activities to try that don't involve screens."

Row 2: 1 pt

The response earned the point for this row, meeting all three of the criteria:

- The response provides two program code segments. The first one shows storage of data in a list named `activity`. The second program code segment uses `activity` to process output from the activity list based on a random integer and works to fulfill the program's purpose of suggesting an activity alternative to screen use.
- The response identifies the name of the list as `activity`.
- The response identifies and describes what is contained in `activity` as "the data that represents alternatives to screen usage and screen free challenge times."

Row 3: 1 pt

The response earned the point for this row, meeting both of the criteria:

- The response includes a program code segment that shows a list, `activity`, being used to manage complexity in the program.
- The response explains that, "Instead of having several different buttons display alternative activities, the lists allow me to store all the data in one organized location."

Row 4: 0 pts

The response does not earn the point for this row. Because the response contains two code segments, the response must be scored based on the first procedure provided—the `procedurerunlock` procedure. The response met only one of the two criteria:

- The response includes a student-developed procedure, `procedurerunlock`, which uses the parameter `time`. A call to `procedurerunlock` is shown in a second procedure, `proceduredisplayclock`.
- The response does not provide a description for what `procedurerunlock` does. The response focuses on what `proceduredisplayclock` does and how it contributes to the program;

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however, `procedurerunlock` is the identified procedure that contains a parameter and should be the focus of the response.

Row 5: 0 pts

The response did not earn the point for this row. Because the response contains two code segments, the response must be scored based on the first procedure provided—the `procedurerunlock` procedure. The response does not meet either of the two criteria:

- The `procedurerunlock` procedure includes a student-developed algorithm that includes sequencing and selection (if...then...else statement); however, it does not include iteration.
- Additionally, the response does not explain how `procedurerunlock` works but rather explains how `proceduredisplayclock` works.

Row 6: 0 pts

The response did not earn the point for this row. The response does not meet any of the three criteria:

- The description includes two test cases that are related not to `procedurerunlock` but to another aspect of the program.