

2025



AP[®] Computer Science Principles

Written Response Prompts Set 2

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AP COMPUTER SCIENCE PRINCIPLES 2025 • FREE-RESPONSE QUESTIONS

COMPUTER SCIENCE PRINCIPLES

SECTION II

TIME – 60 MINUTES

Directions:

Section II has 2 questions (4 written-response prompts) and lasts 60 minutes. The questions for this section are based on the Create Performance Task you previously submitted. Refer to your Personalized Project Reference for the code segments related to your list and procedure.

You may use scratch paper for notes and planning, but credit will only be given for responses entered in this application. Text you enter as an annotation will **not** be included as part of your answer. You can go back and forth between questions in this section until time expires. The clock will turn red when 5 minutes remain—the proctor will not give you any time updates or warnings.

Note: This exam was originally administered digitally. It is presented here in a format optimized for teacher and student use in the classroom.

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1. Identify an unexpected or invalid input that a user could provide to your program. Describe the behavior of your program after it receives this input. If it is not possible for your program to accept an unexpected or invalid input, explain why this is the case.

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2. Refer to your Personalized Project Reference when answering this question.
- A. Consider the first selection statement included in the Procedure section of your Personalized Project Reference. Identify the Boolean expression in this selection statement. Identify a specific value or set of values that will cause this expression to evaluate to `false`. Explain why the specified value(s) will cause this expression to evaluate to `false`.
 - B. Consider the code segment in part (ii) of the List section of your Personalized Project Reference. Suppose another programmer modifies this code segment. Describe a modification the other programmer could make to this code segment that would result in a logic error. Explain why this modification would result in a logic error.
 - C. Consider the procedure identified in part (i) of the Procedure section of your Personalized Project Reference. Describe the functionality provided by this procedure. Explain how implementing this functionality as a procedure results in your program being easier to maintain than if the functionality were not implemented as a procedure.

STOP
END OF EXAM