

# IYPC

**Qualification Round 2025**

1. What is the purpose of a variable in programming?
  - A) To perform calculations
  - B) To store data for later use
  - C) To display text on the screen
  - D) To define user permissions
  
2. What does a loop allow you to do in a program?
  - A) Stop the program
  - B) Execute a block of code once
  - C) Repeat a block of code multiple times
  - D) Store multiple values
  
3. Which of the following best describes a conditional (if/else) statement?
  - A) A way to create random outcomes
  - B) A way to repeat code
  - C) A way to compare values and make decisions
  - D) A way to store multiple values
  
4. Which of these is an example of a data structure?
  - A) Loop
  - B) Function
  - C) Variable
  - D) List/Array
  
5. What does “debugging” mean in programming?
  - A) Adding features to a program
  - B) Writing the user interface
  - C) Finding and fixing errors
  - D) Encrypting code
  
6. Explain in one sentence what a function is and why it’s useful.
  
7. You want to store the names of 10 students. What kind of structure would you use and why?
  
8. What is the difference between a bug and an error in programming?

9. Design an algorithm (in pseudocode or plain steps) to check if a number is even or odd.
10. Write a step-by-step plan to calculate the average of a list of numbers.

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