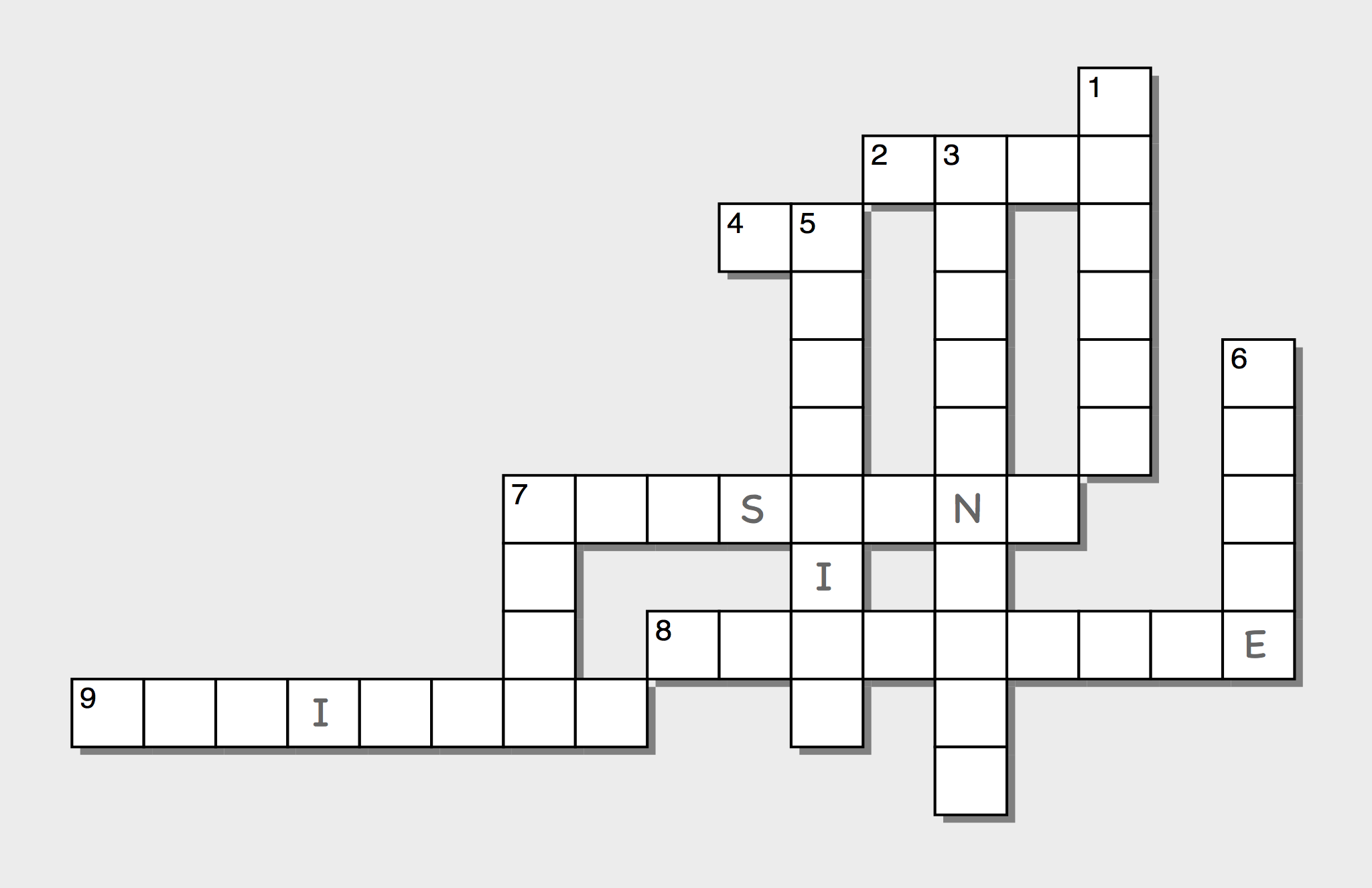
**Tutorial Task 9.2 Answer Sheet:**

**Name: Student ID:**

**Complete the following sample questions to help prepare for Test 2.**

Q1. Use thefollowing clues to complete this crossword about programming **artefacts** and **actions**



# Across

2) A . . . statement branches based on matching a value to a path (many paths per statement).

4) An . . . statement branches based on a boolean value (2 paths per statement).

1. A . . . is used to store a value that does not change.
2. A . . . is a named group of instructions that can be called to perform a task (has a side effect).
3. A . . . is used to store a value for the program that can be changed.

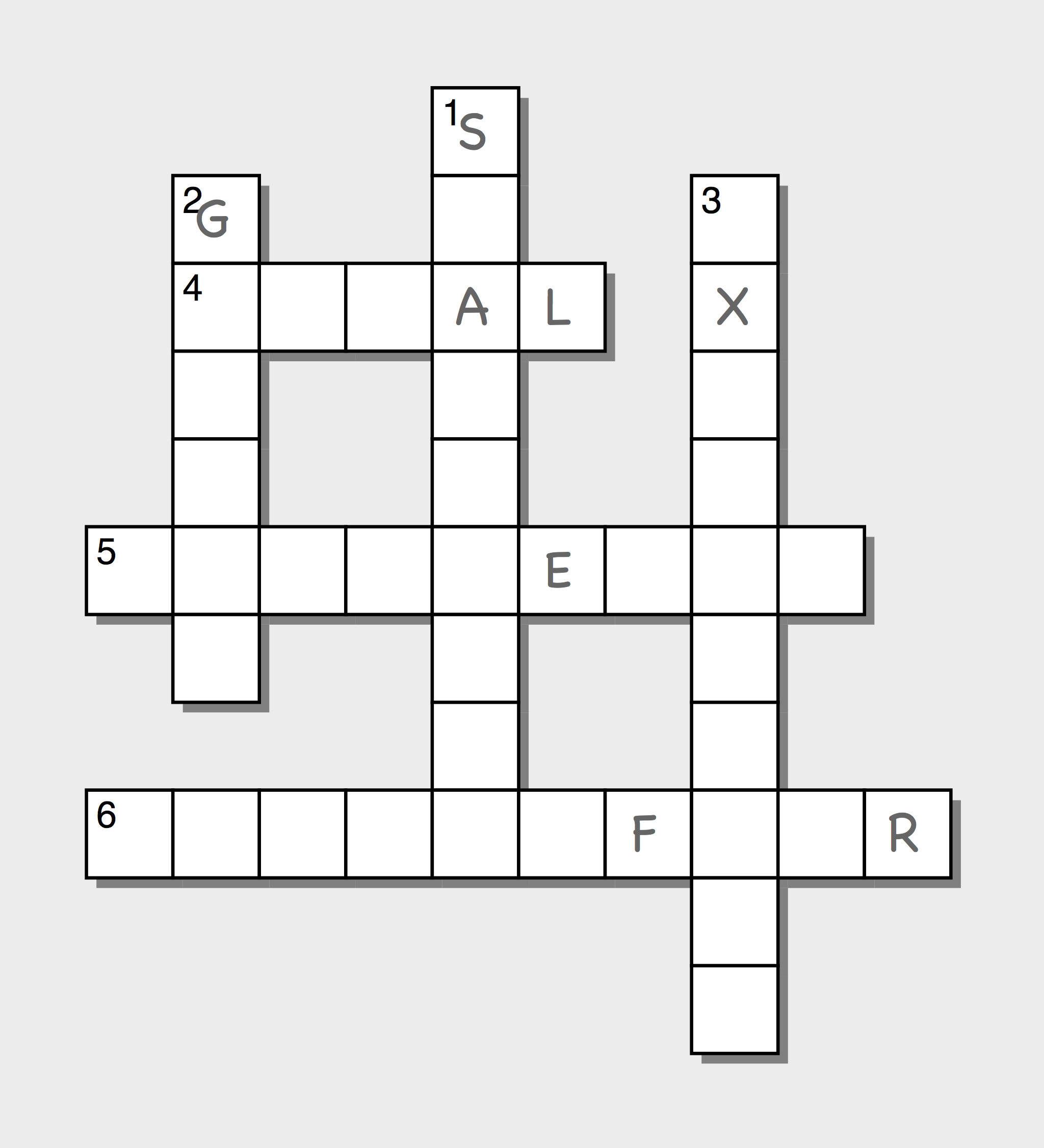
# Down

1) A . . . loop repeats code 1 to many times ( post-test loop )

3) An . . . statement stores a value in a variable.

1. A . . . is a named group of instructions that calculates and returns a value.
2. A . . . loop repeats code 0 to many times ( pre-test loop )
3. A procedure . . . starts the execution of a procedure.

Q2. Use the following clues to complete this crossword about programming **terms**:



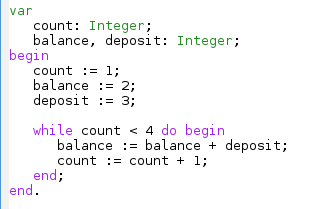
# Across

1. The term given to a **variable** that is *declared* within a **function or procedure** is a . . . variable.
2. . . . is the term given to a **variable** declared to **accept a value passed** to a function or procedure.
3. An . . . is the technical term for the **name** you give to programming artefacts.

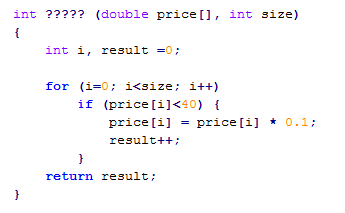
# Down

1. A . . . is the technical term for the **instructions** in your code.
2. The term given to a **variable** that is *declared* available **throughout** the program. A . . . variable.
3. An . . . is a term given to code that calculates a **value**.

Q3. **Hand Execute** the following code to illustrate how it works within the computer.



Q4. Read this **C** code then perform the following tasks.



**a) Hand execute** with the following values for the data array:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 20 | 30 | 60 | 70 | 10 |

**price (before execution): size:**

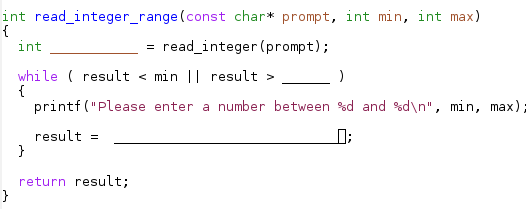
5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |

**Price (after execution) :**

**b) Provide a meaningful name for the above function:**

Q5. Complete the missing code:



**End of Task**