Lists Quiz (Practice, Version B)

Name: _____ Period: _____ Date: _____

Practice version. 10 questions, 10 points, 15 minutes. Choose the single best answer. Code labeled **App Lab** is JavaScript, where list indexes start at **0**. All other code is AP pseudocode (Exam Reference Sheet), where list indexes start at **1**.

1. What is displayed as a result of executing the code segment?

```
fruits ← ["kiwi", "plum", "pear", "fig"]
DISPLAY fruits[3]
```

(A) `pear`
(B) `fig`
(C) `plum`
(D) An error message

2. What is displayed as a result of executing the code segment?

```
vals ← [9, 1, 6]
APPEND(vals, 3)
INSERT(vals, 1, 0)
REMOVE(vals, 3)
DISPLAY(vals)
```

(A) `[9, 0, 1, 3]`
(B) `[0, 9, 6, 3]`
(C) `[0, 9, 1, 3]`
(D) `[0, 9, 6]`

3. The list `temps` contains at least two elements. Which expression evaluates to the *second-to-last* element of `temps`?

(A) `temps[LENGTH(temps)]`
(B) `temps[LENGTH(temps) - 2]`
(C) `temps[2]`
(D) `temps[LENGTH(temps) - 1]`

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4. What happens as a result of executing the code segment?

```
words ⟵ ["sun", "moon"]
DISPLAY words[0]
```

(A) An error occurs, because index 0 is outside the list.

(B) `sun` is displayed.

(C) `moon` is displayed.

(D) `0` is displayed.

5. A game stores the names of its 50 players in 50 separate variables. Which is the main benefit of storing the names in a single list instead?

(A) A list makes every player name shorter.

(B) A list prevents two players from having the same name.

(C) All the names share one name, a loop can process every name, and new players can be added without new variables.

(D) A list keeps the names in alphabetical order automatically.

6. App Lab. What is printed to the console?

```
var days = ["Mon", "Tue", "Wed", "Thu"];
console.log(days[2]);
```

(A) `Wed`

(B) `Tue`

(C) `Thu`

(D) `undefined`

7. App Lab. What is printed to the console? (The two lines are listed in order.)

```
var nums = [4, 8, 15];
console.log(nums.length);
console.log(nums[nums.length - 1]);
```

(A) `2 8`

(B) `3 15`

(C) `3 undefined`

(D) `2 15`

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8. App Lab. What is printed to the console?

```
var list = ["a", "b", "c"];
insertItem(list, 1, "x");
appendItem(list, "y");
removeItem(list, 0);
console.log(list);
```

(A) `["x", "b", "c", "y"]`
(B) `["a", "b", "c", "y"]`
(C) `["a", "x", "b", "c"]`
(D) `["x", "a", "b", "c", "y"]`

9. App Lab. The user types `Hey` and clicks `"addBtn"`, then types `Yo` and clicks it, then types `Hi` and clicks it. After the three clicks, what is the value of `songs[2]`?

```
var songs = [];
onEvent("addBtn", "click", function() {
  appendItem(songs, getText("songInput"));
  setText("countLabel", songs.length);
});
```

(A) `"Yo"`
(B) `"Hey"`
(C) `undefined`
(D) `"Hi"`

10. App Lab. In AP pseudocode, `team[3]` refers to the third element of the list `team`. Which App Lab expression refers to the same element?

(A) `team[3]`
(B) `team[2]`
(C) `team[4]`
(D) `team.length`

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