

# Joel

Overall Score: 88%

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## Detailed Review

### hasHighAndLow Function Analysis

Your Solution:

```
function hasHighOrLow (numbers){ // Wrong function name
    let hasHighNumber = false
    let hasLowNumber = false

    for( let i = 0; i < numbers.length; i++ ) {
        if(numbers[i] > 10){
            hasHighNumber = true
        }
        if(numbers[i] < 5){
            hasLowNumber = true
        }
    }
    return hasHighNumber && hasLowNumber
}
```

### Issues

1. **Incorrect Function Name** (-10%): You named your function `hasHighOrLow` when the question specifically asked for `hasHighAndLow`. This is a critical detail – function names must match the specification exactly.

- **Required:** `hasHighAndLow`
- **Yours:** `hasHighOrLow`

The word “And” vs “Or” also makes a semantic difference in this context, as your function checks for AND logic, not OR logic.

2. **Comment Style** (-2%): Some of your comments are slightly misleading or could be clearer:

- “Declare Varible” has a typo
- “Redeclare HasHighNumber” is misleading – you’re not redeclaring, you’re reassigned the value

## Strengths

1. **Correct Logic:** Despite the wrong function name, your logic is completely correct
2. **Excellent Summary:** You provided a clear, comprehensive summary at the end explaining your approach
3. **Good Variable Names:** `hasHighNumber` and `hasLowNumber` are descriptive
4. **Comprehensive Comments:** Your comments explain each section well (with minor improvements needed)
5. **Good Testing:** You included a test case
6. **Proper FoundationScript:** Uses traditional function declaration and for loop
7. **Clean Code Structure:** Easy to read and follow

## What You Did Well

Your summary is particularly good: > “My approach to this exercise was to create a function that checks if an array contains both high and low numbers by using variables with a boolean value to track the presence of these numbers as we iterate through the array. If both conditions are met, the function returns true; otherwise, it returns false.”

This demonstrates excellent understanding of the problem and clear communication.

## How to Improve

1. **Pay Attention to Specifications:** Always use the exact function name provided in the question. This is especially important in team environments where other code might depend on specific function names.
2. **Terminology Precision:**
  - Use “assign” or “set” instead of “redeclare”
  - Proof-read comments for typos
3. **Example of Fixed Code:**

```
// Function to check if array has both high (>10) and low (<5) numbers
function hasHighAndLow(numbers){ // Correct function name
    let hasHighNumber = false // Track if we've found a high number
    let hasLowNumber = false // Track if we've found a low number

    // Loop through each number in the array
    for(let i = 0; i < numbers.length; i++) {
        if(numbers[i] > 10){
            hasHighNumber = true // Found a number greater than 10
        }
    }
}
```

```
if(numbers[i] < 5){
    hasLowNumber = true // Found a number less than 5
}
}
return hasHighNumber && hasLowNumber
}

// Summary: This function checks if an array contains both a number greater than 10
// and a number less than 5 by tracking both conditions with boolean flags.
```

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## Final Verdict

Score: 88/100

Very good work! Your logic is correct, your summary is excellent, and your understanding of the problem is clear. The main deduction is for the incorrect function name, which is a specification compliance issue.

**Deductions:** - Incorrect function name: -10% - Minor comment issues (typo/misleading terminology): -2%

## Key Takeaway

Always use the exact names, parameters, and specifications provided in the question. Even if your logic is perfect, deviation from specifications can cause issues in real-world scenarios.

Keep up the good work!