

# PHP Programming Tasks Report

Nested Conditional Logic & String Manipulation Exercises

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This document presents two PHP programming tasks, detailing their aims, problem statements, constraints, procedures, implementations, sample outputs, and conclusions.

# Task 1: Largest of Three Numbers Using Nested If

## AIM

Determine the largest value among three given integers using nested conditional statements.

## Problem Statement

Build a PHP CLI program that accepts three predefined integers and evaluates them through nested if statements to identify the maximum.

## Constraints

- The logic must rely on nested if statements rather than built-in max functions.
- The program should clearly display the input numbers and the computed largest number.

## Procedure

- 1 Define an array containing three integer values.
- 2 Assign the first value to a variable representing the current largest number.
- 3 Compare the current largest with the second number using a nested if block and update when needed.
- 4 Within the appropriate branches, compare against the third number to ensure the final value is the maximum.
- 5 Print both the initial numbers and the final result for verification.

## Program

```
/**
 * Program: Largest of three numbers using nested if statements.
 * Usage: php task1_largest.php
 */

$numbers = [56, 92, 37]; // Sample dataset; adjust as needed.

$a = $numbers[0];
$b = $numbers[1];
$c = $numbers[2];

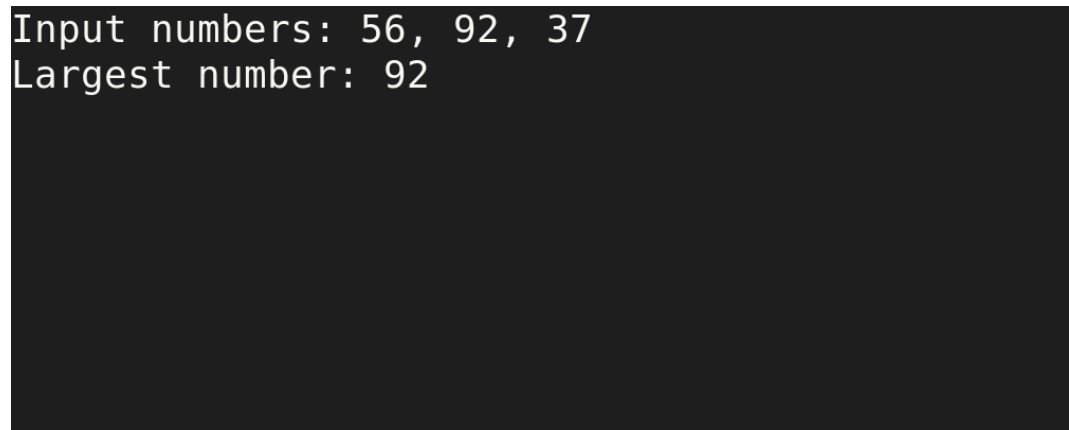
$largest = $a;

if ($largest < $b) {
    if ($b > $c) {
        $largest = $b;
    } else {
        $largest = $c;
    }
} else {
    if ($largest < $c) {
        $largest = $c;
    }
}
```

```
}  
}  
  
echo "Input numbers: {$a}, {$b}, {$c}\n";  
echo "Largest number: {$largest}\n";
```

## ***Output***

Screenshot of the CLI output captured after executing the PHP script:



```
Input numbers: 56, 92, 37  
Largest number: 92
```

## ***Conclusion***

Nested conditionals accurately identified the largest integer, demonstrating correct control flow for comparative evaluation.

## Task 2: Reverse a String Using strrev()

### AIM

Reverse a predefined string using PHP's built-in strrev function.

### Problem Statement

Create a PHP CLI script that stores a phrase in a string variable, applies strrev() to reverse it, and prints both the original and reversed outputs.

### Constraints

• The solution must use the strrev() function to handle string reversal.

• Program output needs to highlight both the original string and its reversed counterpart clearly.

### Procedure

- 1 Declare a string variable with the phrase targeted for reversal.
- 2 Invoke PHP's strrev() function and store the reversed value.
- 3 Display the original and reversed strings on separate lines for readability.

### Program

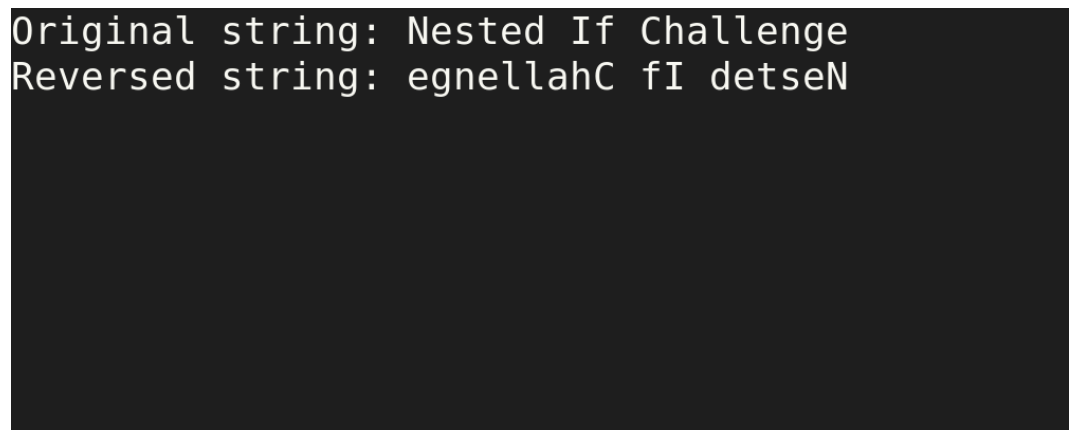
```
/**
 * Program: Reverse a string using strrev.
 * Usage: php task2_reverse.php
 */

$input = "Nested If Challenge";
$reversed = strrev($input);

echo "Original string: {$input}\n";
echo "Reversed string: {$reversed}\n";
```

### Output

Screenshot of the CLI output captured after executing the PHP script:



```
Original string: Nested If Challenge
Reversed string: egnellahC fI detseN
```

## ***Conclusion***

The `strrev()` function reversed the input phrase precisely, confirming the utility of PHP's standard library for string manipulation.