

# Condition

```
<?php
    $ans = 42;
    if ( $ans == 42 ) {
        print "Right! <br>";
    } else {
        print "Wrong! <br>";
    }
?>
```

The result will be:

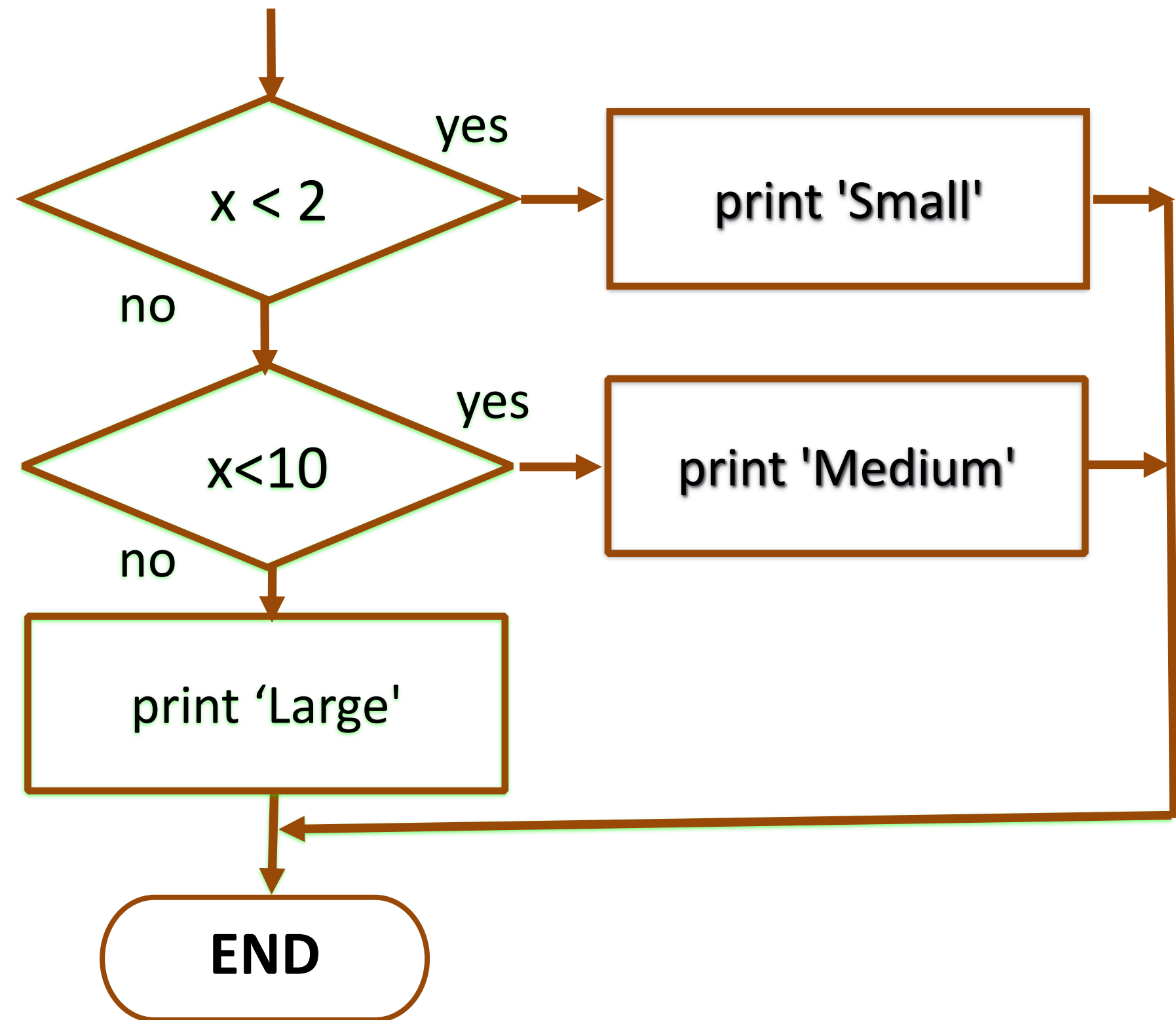
**Right!**

# Conditional (cont.)

```
$x = 7;  
if ( $x < 2 ) {  
    print "Small";  
} elseif ( $x < 10 ) {  
    print "Medium";  
} else {  
    print "Large";  
}
```

The result will be:

Medium



**Note:** When using elseif (without space), curly braces are not required.

The "else if" (with space) is least common.

# Switch case

```
<?php
$code = "th";
switch ($code) {
    case "th":
        $country = "Thailand";
        break;
    case "cn":
        $country = "China";
        break;
    case "us":
        $country = "United States";
        break;
    default:
        $country = "Unknown country";
}
echo "Your country is $country.";
?>
```



**Computer Engineering**  
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# PHP Loops

**CPE5013 - BACK-END PROGRAMMING**

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# -While- loop

```
<?php
$x = 1;
while ($x <= 5) {
    echo "The number is: $x <br>";
    $x++;
}
?>
```

The condition is tested BEFORE the first iteration starts.

# -Do while- loop

```
<?php
$x = 1;
do {
    echo "The number is: $x <br>";
    $x+=2;
} while ($x <= 10);
?>
```

The condition is tested AFTER executing the statements within the loop.

This means that the loop will execute its statements at least once.

# -For- loop

```
<?php
for ($x = 0; $x <= 10; $x++) {
    echo "The number is: $x <br>";
}
?>
```

# Example

Multiplication table generator:

- Receives an input number through HTML form.
- Check if it is a positive number.
- Displays the multiplication table (x 1 to x12).



```

<!DOCTYPE html>
<html>
<head>
  <title>Multiplication Table Generator</title>
</head>
<body>
  <h1>Multiplication Table Generator</h1>

  <form action="" method="post">
    Enter a number: <input type="text" name="number">
    <input type="submit" value="Generate Table">
  </form>

  <!-- Output table goes here -->
</body>
</html>
<?php
if (isset($_POST['number'])) {
  $number = intval($_POST['number']);
  if ($number > 0) {
    echo "<h2>Multiplication Table for $number</h2>";
    for ($i = 1; $i <= 12; $i++) {
      $result = $number * $i;
      echo "$number x $i = $result <br>";
    }
  } else {
    echo "<p>Please enter a positive integer.</p>";
  }
}
?>

```

# Multiplication Table Generator

Enter a number:

## Multiplication Table for 5

$5 \times 1 = 5$   
 $5 \times 2 = 10$   
 $5 \times 3 = 15$   
 $5 \times 4 = 20$   
 $5 \times 5 = 25$   
 $5 \times 6 = 30$   
 $5 \times 7 = 35$   
 $5 \times 8 = 40$   
 $5 \times 9 = 45$   
 $5 \times 10 = 50$   
 $5 \times 11 = 55$   
 $5 \times 12 = 60$

# Assignment

Create a simple web application that will:

- Receives **starting** and **ending** numbers through HTML form.
- Displays the numbers in the range along with whether they are **odd** or **even**.

**Hint:** For even number  $x \% 2 == 0$

## Number Range Checker

Starting Number:   
Ending Number:

**Numbers in the range -2 to 10:**

-2 is even  
-1 is odd  
0 is even  
1 is odd  
2 is even  
3 is odd  
4 is even  
5 is odd  
6 is even  
7 is odd  
8 is even  
9 is odd  
10 is even