



# Solution Review: Convert Digits from 0 to 5 into Text

Let's go over the solution review of the challenge given in the previous lesson.

We'll cover the following



- Solution
- Explanation

## Solution #

Press the **RUN** button and see the output!

```
3
4 string digit_text (int number){
5     // Declares a variable of type string
6     string result ;
7     switch (number){
8         case 0:
9             result = "zero";
10        break;
11        case 1:
12            result = "one";
13        break;
14        case 2:
15            result = "two";
16        break;
17        case 3:
18            result = "three";
19        break;
20        case 4:
21            result = "four";
22        break;
```



```
23     case 5:
24         result = "five";
25         break;
26
27     default:
28         result = "invalid number";
29
30 }
```



Output

1.23s

```
number = 3
text = three
```

## Explanation#

On **Line No. 4**, we define our function `digit_text` that takes an `int` value in its input parameter and returns a value of type `string` in the output.

**Line No. 6:** Declares a variable `result` of type `string`.

**Line No. 7:** The `switch` statement compares the value of the `number` with the label of each case.

**Line No. 8 to 25:** If the value of the `number` equals the case label, the statements following that case are executed until it encounters the `break` statement. When the `break` statement is executed, the program flow jumps out of the `switch` block and executes **Line No.32**. In each case, we are storing the text of the case label in the `result`.

**Line No. 27 to 28:** If the value of the `number` does not match any case label, the statements following the `default` keyword are executed. The default case stores the `invalid number` in the variable `result`.



**Line No. 32:** Returns value of the `result` to the statement that calls the `digit_text` function.

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Challenge 1: Convert Digits from 0 to ...

Challenge 2: Set the Smallest Number ...



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