

Chapter 4

Write programs for the following and test to make sure they work. Please follow the book's guidelines or my style guidelines to write code.

1. Write a program that prompts the user to input an integer between 0 and 35. If the number is less than or equal to 9, the program should output the number; otherwise, it should output A for 10, B for 11, C for 12...and Z for 35. (Hint: Use the cast operator, `static_cast<char>()`, for numbers ≥ 10 .)
2. In a right triangle, the square of the length of one side is equal to the sum of the squares of the lengths of the other two sides. Write a program that prompts the user to enter the lengths of three sides of a triangle and then outputs a message indicating whether the triangle is a right triangle. Assume the user does not know the hypotenuse. Meaning, you have to check all 3 sides to verify that it is a right-angled triangle.