

Problem 11: Sum of Digits Until Single Digit

Objective: The goal of this problem is to write a Python function that repeatedly sums the digits of a given integer until the result is a single digit. You will also write a script to read the input from the console and print the output.

Background: Reducing a number to a single digit involves repeatedly summing its digits until only one digit remains.

Task: Write a Python function that takes one parameter `num` (int) and returns the single-digit sum of its digits. Write a script to read the input from the console and print the output.

Input Format:

- `num` (int): The integer to be reduced to a single digit.

Output Format:

- The single-digit sum of the digits of the given integer.

Sample Input:

12345

Sample Output:

6