

WRITE A PROGRAM THAT INPUTS AN INTEGER (0 - 9999) AND OUTPUTS THE NUMBER OF DIGITS. EX: IF THE INPUT

WRITE A PROGRAM THAT INPUTS AN INTEGER (0 - 9999) AND OUTPUTS THE NUMBER OF DIGITS. EX: IF THE INPUT IS A COMMON PROGRAMMING CHALLENGE DESIGNED TO HELP BEGINNERS UNDERSTAND BASIC INPUT HANDLING, CONDITIONAL STATEMENTS, AND NUMBER MANIPULATION. THIS TASK INVOLVES CREATING A SIMPLE YET INSTRUCTIVE PROGRAM THAT PROMPTS THE USER TO ENTER AN INTEGER WITHIN THE RANGE OF 0 TO 9999 AND THEN DETERMINES HOW MANY DIGITS THE NUMBER CONTAINS. SUCH A PROGRAM IS FUNDAMENTAL IN DEVELOPING LOGICAL THINKING AND GRASPING CORE PROGRAMMING CONCEPTS, MAKING IT AN EXCELLENT STARTING POINT FOR NOVICE CODERS.

UNDERSTANDING THE TASK: INPUTTING AND ANALYZING AN INTEGER

BEFORE DIVING INTO CODE, IT'S ESSENTIAL TO UNDERSTAND WHAT THE PROGRAM NEEDS TO ACCOMPLISH:

KEY REQUIREMENTS

- THE PROGRAM MUST ACCEPT AN INTEGER INPUT FROM THE USER, SPECIFICALLY BETWEEN 0 AND 9999 INCLUSIVE.
- IT SHOULD DETERMINE THE NUMBER OF DIGITS IN THE INPUT NUMBER.
- THE OUTPUT SHOULD CLEARLY STATE THE NUMBER OF DIGITS.

WHY IS THIS IMPORTANT?

THIS EXERCISE HELPS IN UNDERSTANDING:

- INPUT VALIDATION AND HANDLING USER DATA
- CONDITIONAL LOGIC BASED ON NUMERIC PROPERTIES
- BASIC STRING MANIPULATION OR MATHEMATICAL OPERATIONS
- EDGE CASE HANDLING, ESPECIALLY FOR NUMBERS WITH LEADING ZEROS OR MINIMAL VALUES

METHODS TO COUNT DIGITS IN AN INTEGER

THERE ARE SEVERAL APPROACHES PROGRAMMERS CAN UTILIZE TO FIND THE NUMBER OF DIGITS IN AN INTEGER. HERE ARE SOME COMMON METHODS:

METHOD 1: STRING CONVERSION

CONVERTING THE INTEGER TO A STRING ALLOWS EASY COUNTING OF CHARACTERS:

```
number = int(input("Enter a number between 0 and 9999: "))
digit_count = len(str(number))
print(f"The number has {digit_count} digits.")
```

THIS METHOD IS STRAIGHTFORWARD AND WORKS EFFICIENTLY FOR SMALL RANGES LIKE 0-9999.

METHOD 2: MATHEMATICAL DIVISION

USING DIVISION AND INTEGER OPERATIONS:

1. INITIALIZE A COUNTER TO ZERO.
2. DIVIDE THE NUMBER REPEATEDLY BY 10 UNTIL IT REACHES ZERO.
3. INCREMENT THE COUNTER AT EACH STEP.

EXAMPLE:

```
number = int(input("Enter a number between 0 and 9999: "))
if number == 0:
    print("The number has 1 digit.")
else:
    count = 0
    temp = number
    while temp > 0:
        temp //= 10
        count += 1
    print(f"The number has {count} digits.")
```

METHOD 3: USING LOGARITHMS (ADVANCED)

MATHEMATICALLY, THE NUMBER OF DIGITS IN A NUMBER N ($N > 0$) CAN BE CALCULATED AS:

```
import math
number = int(input("Enter a number between 0 and 9999: "))
if number == 0:
    print("The number has 1 digit.")
else:
    digits = int(math.log10(number)) + 1
    print(f"The number has {digits} digits.")
```

NOTE: FOR ZERO, SPECIAL HANDLING IS NEEDED SINCE $\log(0)$ IS UNDEFINED.

IMPLEMENTING THE PROGRAM: STEP-BY-STEP GUIDE

CREATING A ROBUST PROGRAM INVOLVES CAREFUL PLANNING TO HANDLE ALL EDGE CASES AND INPUT VALIDATION.

STEP 1: PROMPT FOR INPUT

THE FIRST STEP IS TO GET USER INPUT AND ENSURE IT'S AN INTEGER WITHIN THE SPECIFIED RANGE:

```
try:
number = int(input("Enter an integer between 0 and 9999: "))
except ValueError:
print("Invalid input. Please enter a valid integer.")
Additional handling can be added here.
```

STEP 2: VALIDATE THE INPUT

ENSURE THE NUMBER IS WITHIN 0 TO 9999:

```
if number < 0 or number > 9999:
print("Number out of range. Please enter a number between 0 and 9999.")
Optionally, prompt again or exit.
```

STEP 3: COUNT THE DIGITS

CHOOSE ONE OF THE METHODS DESCRIBED EARLIER TO COUNT DIGITS. FOR SIMPLICITY AND CLARITY, THE STRING CONVERSION METHOD IS RECOMMENDED FOR BEGINNERS:

```
digit_count = len(str(number))
print(f"The number {number} has {digit_count} digits.")
```

STEP 4: HANDLE EDGE CASES

SPECIAL CASES, SUCH AS ZERO, ARE NATURALLY HANDLED IN THE STRING METHOD SINCE `len(str(0))` IS 1.

SAMPLE COMPLETE PROGRAM IN PYTHON

```
```PYTHON
def count_digits():
 try:
 number = int(input("Enter an integer between 0 and 9999: "))
 except ValueError:
 print("Invalid input. Please enter a valid integer.")
 return
```

```
if number < 0 or number > 9999:
```

```
PRINT("NUMBER OUT OF RANGE. PLEASE ENTER A NUMBER BETWEEN 0 AND 9999.")
RETURN

DIGIT_COUNT = LEN(STR(NUMBER))
PRINT(F"THE NUMBER {NUMBER} HAS {DIGIT_COUNT} DIGITS.")

IF __NAME__ == "__MAIN__":
 COUNT_DIGITS()
'''
```

THIS PROGRAM IS SIMPLE, YET COVERS ALL ESSENTIAL ASPECTS: INPUT VALIDATION, HANDLING EDGE CASES, AND OUTPUT FORMATTING.

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## ENHANCING THE PROGRAM FOR BETTER USER EXPERIENCE

TO MAKE THE PROGRAM MORE USER-FRIENDLY, CONSIDER IMPLEMENTING FEATURES LIKE:

### REPETITION UNTIL VALID INPUT

ALLOW THE USER TO TRY AGAIN IF THE INPUT IS INVALID:

```
def get_valid_input():
 while True:
 try:
 number = int(input("Enter an integer between 0 and 9999: "))
 if 0 <= number <= 9999:
 return number
 except:
 print("Number out of range. Please try again.")
 except ValueError:
 print("Invalid input. Please enter a valid integer.")

number = get_valid_input()
digit_count = len(str(number))
print(f"The number {number} has {digit_count} digits.")
```

### ADDING FUNCTIONALITY FOR LARGER RANGES

WITH MINOR MODIFICATIONS, THE PROGRAM CAN BE ADAPTED TO HANDLE LARGER NUMBERS OR DIFFERENT RANGES.

### OUTPUT CUSTOMIZATION

PROVIDE MORE DESCRIPTIVE OUTPUT:

```
print(f"Number: {number} | Digits: {digit_count}")
```

---

# PRACTICAL APPLICATIONS AND LEARNING OUTCOMES

CREATING A PROGRAM THAT DETERMINES THE NUMBER OF DIGITS IN AN INTEGER IS A FUNDAMENTAL EXERCISE WITH REAL-WORLD APPLICATIONS:

- INPUT VALIDATION IN USER FORMS
- DATA FORMATTING AND PRESENTATION
- BASIC CRYPTOGRAPHY OR CHECKSUM CALCULATIONS
- NUMBER ANALYSIS IN SCIENTIFIC COMPUTATIONS

BY MASTERING THIS TASK, LEARNERS DEVELOP A SOLID FOUNDATION FOR MORE COMPLEX PROGRAMMING CHALLENGES, SUCH AS PARSING LARGE DATASETS, IMPLEMENTING ALGORITHMS, AND DESIGNING USER INTERFACES.

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## CONCLUSION

WRITING A PROGRAM THAT INPUTS AN INTEGER BETWEEN 0 AND 9999 AND OUTPUTS THE NUMBER OF DIGITS IS AN EXCELLENT BEGINNER PROGRAMMING PROJECT. IT REINFORCES CORE CONCEPTS LIKE INPUT HANDLING, VALIDATION, CONDITIONAL LOGIC, AND NUMBER MANIPULATION. WHETHER YOU CHOOSE STRING CONVERSION, MATHEMATICAL CALCULATIONS, OR LOGARITHMIC METHODS, UNDERSTANDING THESE APPROACHES EMPOWERS YOU TO SOLVE A VARIETY OF PROBLEMS EFFICIENTLY. WITH PRACTICE, YOU'LL BE ABLE TO ADAPT AND EXPAND THIS PROGRAM FOR MORE COMPLEX APPLICATIONS, LAYING A STRONG FOUNDATION FOR YOUR PROGRAMMING JOURNEY.

REMEMBER, THE KEY TO MASTERING PROGRAMMING IS CONSISTENT PRACTICE AND EXPERIMENTING WITH DIFFERENT METHODS TO SEE WHAT WORKS BEST FOR YOUR SPECIFIC NEEDS. HAPPY CODING!

## FREQUENTLY ASKED QUESTIONS

### HOW CAN I WRITE A PROGRAM TO DETERMINE THE NUMBER OF DIGITS IN AN INTEGER BETWEEN 0 AND 9999?

YOU CAN INPUT THE NUMBER AS A STRING AND CHECK ITS LENGTH, OR CONVERT THE NUMBER TO A STRING AND COUNT THE CHARACTERS. ALTERNATIVELY, USE MATHEMATICAL OPERATIONS LIKE DIVIDING BY 10 REPEATEDLY TO COUNT DIGITS.

### WHAT IS THE EASIEST WAY TO COUNT DIGITS OF AN INTEGER IN PYTHON?

THE SIMPLEST METHOD IS TO CONVERT THE INTEGER TO A STRING WITH `STR(NUMBER)` AND THEN GET THE LENGTH USING `LEN()`. FOR EXAMPLE: `LEN(STR(NUMBER))`.

### HOW DO I HANDLE INPUT VALIDATION FOR NUMBERS BETWEEN 0 AND 9999 IN MY PROGRAM?

AFTER TAKING INPUT, CONVERT IT TO AN INTEGER AND CHECK IF IT FALLS WITHIN THE RANGE 0 TO 9999. IF NOT, PROMPT THE USER TO ENTER A VALID NUMBER.

## CAN I USE ARITHMETIC OPERATIONS TO DETERMINE THE NUMBER OF DIGITS IN AN INTEGER?

YES. YOU CAN REPEATEDLY DIVIDE THE NUMBER BY 10 AND COUNT HOW MANY TIMES UNTIL IT BECOMES 0. FOR EXAMPLE:  
COUNT = 0; WHILE NUMBER > 0: NUMBER //= 10; COUNT += 1.

## WHAT SHOULD I DO IF THE INPUT NUMBER IS 0? HOW MANY DIGITS DOES IT HAVE?

THE NUMBER 0 HAS 1 DIGIT. MAKE SURE YOUR PROGRAM ACCOUNTS FOR THIS CASE SEPARATELY IF USING STRING LENGTH, SINCE `len(str(0))` IS 1.

## HOW CAN I MODIFY THE PROGRAM TO HANDLE NEGATIVE INTEGERS?

FIRST, TAKE THE ABSOLUTE VALUE OF THE INPUT NUMBER USING `abs()`. THEN, PROCEED TO COUNT DIGITS AS USUAL, EITHER BY STRING CONVERSION OR ARITHMETIC OPERATIONS.

## IS THERE A WAY TO OPTIMIZE THE DIGIT COUNTING FOR LARGE NUMBERS WITHIN THE 0-9999 RANGE?

SINCE THE MAXIMUM NUMBER IS 9999, YOU CAN USE CONDITIONAL STATEMENTS TO DIRECTLY DETERMINE THE NUMBER OF DIGITS BASED ON THE INPUT'S VALUE, AVOIDING LOOPS OR CONVERSIONS.

## CAN I WRITE A PROGRAM THAT OUTPUTS THE NUMBER OF DIGITS WITHOUT USING BUILT-IN FUNCTIONS LIKE `len()`?

YES. YOU CAN IMPLEMENT A LOOP THAT DIVIDES THE NUMBER BY 10 REPEATEDLY AND COUNTS HOW MANY TIMES UNTIL THE NUMBER BECOMES 0, WHICH GIVES THE NUMBER OF DIGITS.

## ADDITIONAL RESOURCES

WRITE A PROGRAM THAT INPUTS AN INTEGER (0 - 9999) AND OUTPUTS THE NUMBER OF DIGITS IS A CLASSIC PROBLEM THAT INTRODUCES FUNDAMENTAL PROGRAMMING CONCEPTS SUCH AS INPUT HANDLING, CONDITIONAL STATEMENTS, AND BASIC NUMBER MANIPULATION. THIS TASK IS OFTEN USED AS AN INTRODUCTORY EXERCISE FOR BEGINNERS TO DEVELOP THEIR LOGICAL THINKING AND UNDERSTANDING OF CONTROL FLOW. WHETHER YOU'RE A NOVICE PROGRAMMER OR SOMEONE BRUSHING UP ON YOUR CODING SKILLS, UNDERSTANDING HOW TO DETERMINE THE NUMBER OF DIGITS IN AN INTEGER IS A VALUABLE FOUNDATIONAL SKILL THAT CAN BE BUILT UPON FOR MORE COMPLEX OPERATIONS.

IN THIS COMPREHENSIVE GUIDE, WE WILL EXPLORE VARIOUS METHODS AND BEST PRACTICES TO WRITE A PROGRAM THAT ACCOMPLISHES THIS TASK EFFICIENTLY AND CLEANLY. WE WILL DISCUSS THE PROBLEM'S REQUIREMENTS, OUTLINE POSSIBLE APPROACHES, AND PROVIDE STEP-BY-STEP INSTRUCTIONS FOR IMPLEMENTATION IN DIFFERENT PROGRAMMING LANGUAGES. LET'S BEGIN BY UNDERSTANDING THE PROBLEM IN DETAIL.

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### UNDERSTANDING THE PROBLEM

THE GOAL IS TO CREATE A PROGRAM THAT:

- ACCEPTS AN INTEGER INPUT FROM THE USER, SPECIFICALLY IN THE RANGE 0 TO 9999.
- DETERMINES HOW MANY DIGITS THE ENTERED NUMBER HAS.
- OUTPUTS THE RESULT IN A CLEAR AND UNDERSTANDABLE MANNER.

FOR EXAMPLE:

- INPUT: '7'  OUTPUT: 'THE NUMBER HAS 1 DIGIT.'
- INPUT: '123'  OUTPUT: 'THE NUMBER HAS 3 DIGITS.'
- INPUT: '9999'  OUTPUT: 'THE NUMBER HAS 4 DIGITS.'

THIS PROBLEM SEEMS STRAIGHTFORWARD, BUT IT TOUCHES UPON KEY PROGRAMMING CONCEPTS SUCH AS:

- INPUT VALIDATION
- CONDITIONAL LOGIC
- STRING CONVERSION
- MATHEMATICAL OPERATIONS

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## APPROACHES TO DETERMINE THE NUMBER OF DIGITS

THERE ARE MULTIPLE METHODS TO DETERMINE THE NUMBER OF DIGITS IN AN INTEGER. CHOOSING THE MOST APPROPRIATE METHOD DEPENDS ON FACTORS LIKE LANGUAGE FEATURES, PERFORMANCE CONSIDERATIONS, AND CLARITY.

### 1. STRING CONVERSION METHOD

OVERVIEW: CONVERT THE INTEGER TO A STRING AND COUNT THE LENGTH OF THE STRING.

ADVANTAGES:

- SIMPLE AND INTUITIVE.
- EASY TO IMPLEMENT AND UNDERSTAND.

STEPS:

1. READ THE INPUT NUMBER.
2. CONVERT THE NUMBER TO A STRING.
3. COUNT THE CHARACTERS IN THE STRING.
4. DISPLAY THE COUNT.

SAMPLE LOGIC:

```
```PYTHON
NUMBER = INT(INPUT("ENTER AN INTEGER (0-9999): "))
DIGIT_COUNT = LEN(STR(NUMBER))
PRINT(F"THE NUMBER HAS {DIGIT_COUNT} DIGITS.")
```
```

CONSIDERATIONS:

- LEADING ZEROS ARE NOT AN ISSUE SINCE INTEGERS DON'T STORE LEADING ZEROS.
- THE METHOD WORKS SEAMLESSLY WITH ZERO ('0'), RESULTING IN A LENGTH OF 1.

---

### 2. MATHEMATICAL DIVISION METHOD

OVERVIEW: USE DIVISION TO DETERMINE THE NUMBER OF DIGITS BASED ON THE RANGE.

ADVANTAGES:

- DOES NOT CONVERT TO STRING.
- DEMONSTRATES UNDERSTANDING OF NUMERICAL OPERATIONS.

LOGIC:

- FOR '0', THE DIGIT COUNT IS 1.
- FOR OTHER NUMBERS:
- 0-9 [?] 1 DIGIT
- 10-99 [?] 2 DIGITS
- 100-999 [?] 3 DIGITS
- 1000-9999 [?] 4 DIGITS

SAMPLE LOGIC:

```

"""PYTHON
NUMBER = INT(INPUT("ENTER AN INTEGER (0-9999): "))
IF NUMBER == 0:
 DIGITS = 1
ELIF NUMBER < 10:
 DIGITS = 1
ELIF NUMBER < 100:
 DIGITS = 2
ELIF NUMBER < 1000:
 DIGITS = 3
ELSE:
 DIGITS = 4
PRINT(F"THE NUMBER HAS {DIGITS} DIGITS.")
"""

```

CONSIDERATIONS:

- REQUIRES MULTIPLE CONDITIONAL CHECKS.
- EFFICIENT FOR THE SMALL FIXED RANGE (0-9999).

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### 3. LOGARITHMIC METHOD

OVERVIEW: USE LOGARITHMS TO DETERMINE THE NUMBER OF DIGITS MATHEMATICALLY.

LOGIC:

- FOR POSITIVE INTEGERS, `DIGITS = FLOOR(LOG10(NUMBER)) + 1`.
- FOR ZERO, HANDLE SEPARATELY SINCE `LOG10(0)` IS UNDEFINED.

SAMPLE LOGIC:

```

"""PYTHON
IMPORT MATH

NUMBER = INT(INPUT("ENTER AN INTEGER (0-9999): "))
IF NUMBER == 0:
 DIGITS = 1
ELSE:
 DIGITS = INT(MATH.LOG10(NUMBER)) + 1
PRINT(F"THE NUMBER HAS {DIGITS} DIGITS.")
"""

```

CONSIDERATIONS:

- REQUIRES IMPORTING THE `MATH` MODULE.
- HANDLES LARGER RANGES EASILY BUT MIGHT BE OVERKILL FOR SMALL NUMBERS.

---

### INPUT VALIDATION AND ERROR HANDLING

REGARDLESS OF THE METHOD CHOSEN, IT'S CRUCIAL TO VALIDATE THE INPUT:

- ENSURE THE INPUT IS AN INTEGER.
- CONFIRM THAT THE NUMBER FALLS WITHIN THE SPECIFIED RANGE (0-9999).

EXAMPLE:

```

"""PYTHON
TRY:

```

```

NUMBER = INT(INPUT("ENTER AN INTEGER (0-9999): "))
IF 0 <= NUMBER <= 9999:
 PROCEED WITH DIGIT COUNT
ELSE:
 PRINT("ERROR: NUMBER OUT OF RANGE. PLEASE ENTER A NUMBER BETWEEN 0 AND 9999.")
EXCEPT ValueError:
 PRINT("ERROR: INVALID INPUT. PLEASE ENTER A VALID INTEGER.")
'''

```

BEST PRACTICES:

- LOOP PROMPTS UNTIL VALID INPUT IS RECEIVED.
- PROVIDE USER-FRIENDLY ERROR MESSAGES.

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COMPLETE PROGRAM EXAMPLE: STRING CONVERSION APPROACH

HERE'S A FULL, STEP-BY-STEP EXAMPLE OF HOW TO IMPLEMENT THIS IN PYTHON, COMBINING INPUT VALIDATION, DIGIT COUNTING VIA STRING CONVERSION, AND USER FEEDBACK:

```

'''PYTHON
DEF COUNT_DIGITS():
 WHILE TRUE:
 USER_INPUT = INPUT("ENTER AN INTEGER BETWEEN 0 AND 9999: ")
 TRY:
 NUMBER = INT(USER_INPUT)
 IF 0 <= NUMBER <= 9999:
 DIGIT_COUNT = LEN(STR(NUMBER))
 PRINT(F"THE NUMBER {NUMBER} HAS {DIGIT_COUNT} DIGIT(S).")
 BREAK
 ELSE:
 PRINT("INVALID RANGE. PLEASE ENTER A NUMBER BETWEEN 0 AND 9999.")
 EXCEPT ValueError:
 PRINT("INVALID INPUT. PLEASE ENTER A VALID INTEGER.")
'''

```

RUN THE FUNCTION

```
COUNT_DIGITS()
```

'''

---

EXTENDING THE PROGRAM: HANDLING LARGER NUMBERS AND DIFFERENT RANGES

WHILE THE PROBLEM SPECIFIES THE RANGE 0-9999, THE CORE LOGIC CAN BE ADAPTED FOR LARGER RANGES OR NEGATIVE NUMBERS.

FOR NEGATIVE NUMBERS:

- TAKE THE ABSOLUTE VALUE BEFORE COUNTING DIGITS.

```

'''PYTHON
NUMBER = ABS(INT(INPUT("ENTER AN INTEGER: ")))
DIGIT_COUNT = LEN(STR(NUMBER))
'''

```

FOR LARGER RANGES:

- NO CHANGE IS NEEDED IF USING STRING CONVERSION.
- FOR MATHEMATICAL METHODS, ADJUST THE LOGIC ACCORDINGLY.

---

## SUMMARY AND BEST PRACTICES

- CHOOSE THE SIMPLEST METHOD THAT FITS YOUR NEEDS; FOR SMALL RANGES, STRING CONVERSION IS OFTEN THE MOST STRAIGHTFORWARD.
- ALWAYS VALIDATE INPUT TO PREVENT ERRORS AND UNEXPECTED BEHAVIOR.
- HANDLE SPECIAL CASES, SUCH AS ZERO OR NEGATIVE NUMBERS.
- USE CLEAR AND DESCRIPTIVE OUTPUT TO MAKE THE PROGRAM USER-FRIENDLY.
- DOCUMENT YOUR CODE WITH COMMENTS FOR CLARITY, ESPECIALLY IF SHARING OR MAINTAINING THE CODE LATER.

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## FINAL THOUGHTS

WRITING A PROGRAM THAT INPUTS AN INTEGER AND OUTPUTS THE NUMBER OF DIGITS IS AN EXCELLENT EXERCISE TO REINFORCE FUNDAMENTAL PROGRAMMING SKILLS. IT ENCOURAGES PRACTICE IN INPUT VALIDATION, CONDITIONAL LOGIC, AND NUMBER MANIPULATION. BY UNDERSTANDING MULTIPLE APPROACHES, YOU CAN CHOOSE THE MOST SUITABLE ONE FOR YOUR SPECIFIC CONTEXT, WHETHER IT'S FOR EDUCATIONAL PURPOSES, INTERVIEW PREPARATION, OR BUILDING MORE COMPLEX SYSTEMS.

WHETHER YOU OPT FOR STRING CONVERSION, MATHEMATICAL CALCULATIONS, OR A COMBINATION OF BOTH, MASTERING THIS PROBLEM LAYS A SOLID FOUNDATION FOR TACKLING MORE ADVANCED PROGRAMMING CHALLENGES INVOLVING NUMBER ANALYSIS, DATA VALIDATION, AND CONTROL FLOW LOGIC.

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