EXACTLY 100 Intermediate Python Coding Problems

HackerRank-Style | Verified Count

Problem 1

Problem Statement: Swap two numbers without using a third variable.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 2

Problem Statement: Check whether a number is positive, negative, or zero.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 3

Problem Statement: Find the largest of three numbers.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 4

Problem Statement: Calculate simple interest.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 5

Problem Statement: Calculate compound interest.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 6

Problem Statement: Convert temperature from Celsius to Fahrenheit.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 7

Problem Statement: Convert temperature from Fahrenheit to Celsius.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 8

Problem Statement: Check whether a number is even or odd without modulus operator.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 9

Problem Statement: Find the sum of digits of a number.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 10

Problem Statement: Reverse a given number.
Input Format: Read input from standard input.
Output Format: Print the required output.

Constraints: Standard constraints apply.

Problem 11

Problem Statement: Check whether a given year is a leap year.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 12

Problem Statement: Assign grades based on marks.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 13

Problem Statement: Check whether a character is vowel or consonant.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 14

Problem Statement: Check whether a character is digit or alphabet.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 15

Problem Statement: Check whether a number is divisible by both 3 and 5.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 16

Problem Statement: Validate username and password.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 17

Problem Statement: Determine the type of triangle.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 18

Problem Statement: Calculate BMI category.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 19

Problem Statement: Check whether a number lies within a given range.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 20

Problem Statement: Find the greatest of four numbers.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 21

Problem Statement: Print numbers from 1 to N using while loop.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 22

Problem Statement: Find factorial using while loop.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 23

Problem Statement: Reverse a number using while loop.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 24

Problem Statement: Count digits in a number.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 25

Problem Statement: Find sum of even numbers up to N.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 26

Problem Statement: Check whether a number is Armstrong.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 27

Problem Statement: Generate Fibonacci series using while loop.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 28

Problem Statement: Print multiplication table using while loop.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 29

Problem Statement: Find GCD using while loop.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 30

Problem Statement: Accept numbers until 0 is entered and print sum.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 31

Problem Statement: Print all prime numbers between 1 and N.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 32

Problem Statement: Find factorial using for loop.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 33

Problem Statement: Print star pattern using for loop.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 34

Problem Statement: Find sum of first N natural numbers.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 35

Problem Statement: Count vowels in a string.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 36

Problem Statement: Print all divisors of a number.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 37

Problem Statement: Generate Fibonacci series using for loop.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 38

Problem Statement: Reverse a string using for loop.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 39

Problem Statement: Calculate power without using exponent operator.
Input Format: Read input from standard input.
Output Format: Print the required output.

Constraints: Standard constraints apply.

Problem 40

Problem Statement: Print multiplication tables from 1 to 10.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 41

Problem Statement: Check prime number using function.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 42

Problem Statement: Find factorial using function.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 43

Problem Statement: Check palindrome string using function.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 44

Problem Statement: Find maximum of three numbers using function.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 45

Problem Statement: Find sum of digits using function.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 46

Problem Statement: Generate Fibonacci series using function.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 47

Problem Statement: Count vowels using function.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 48

Problem Statement: Find GCD using function.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 49

Problem Statement: Return unique elements from a list using function.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 50

Problem Statement: Calculate power using recursive function.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 51

Problem Statement: Find largest element in a list.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 52

Problem Statement: Find smallest element in a list.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 53

Problem Statement: Remove duplicate elements from list.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 54

Problem Statement: Sort a list without using sort method.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 55

Problem Statement: Find second largest number in list.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 56

Problem Statement: Count frequency of elements in list.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 57

Problem Statement: Reverse a list without reverse method.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 58

Problem Statement: Merge two lists and remove duplicates.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 59

Problem Statement: Separate even and odd numbers from list.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 60

Problem Statement: Find common elements between two lists.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 61

Problem Statement: Rotate a list by K positions.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 62

Problem Statement: Find sum of list elements.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 63

Problem Statement: Find average of list elements.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 64

Problem Statement: Replace negative numbers with zero.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 65

Problem Statement: Check whether list is palindrome.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 66

Problem Statement: Find maximum value in a tuple.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 67

Problem Statement: Find minimum value in a tuple.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 68

Problem Statement: Convert tuple to list.
Input Format: Read input from standard input.
Output Format: Print the required output.

Constraints: Standard constraints apply.

Problem 69

Problem Statement: Count occurrence of element in tuple.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 70

Problem Statement: Check whether tuple elements are unique.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 71

Problem Statement: Perform union of two sets.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 72

Problem Statement: Perform intersection of two sets.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 73

Problem Statement: Perform difference of two sets.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 74

Problem Statement: Check whether one set is subset of another.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 75

Problem Statement: Find symmetric difference of two sets.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 76

Problem Statement: Create student marks dictionary and find topper.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 77

Problem Statement: Count character frequency using dictionary.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 78

Problem Statement: Merge two dictionaries manually.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 79

Problem Statement: Sort dictionary by keys.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 80

Problem Statement: Sort dictionary by values.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 81

Problem Statement: Find key with maximum value.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 82

Problem Statement: Safely remove a key from dictionary.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 83

Problem Statement: Check whether key exists in dictionary.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 84

Problem Statement: Create dictionary from two lists.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 85

Problem Statement: Find sum of all dictionary values.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 86

Problem Statement: Reverse a string without slicing.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 87

Problem Statement: Check whether string is palindrome.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 88

Problem Statement: Count number of words in a sentence.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 89

Problem Statement: Find frequency of each character in string.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 90

Problem Statement: Remove spaces from string.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 91

Problem Statement: Convert string to title case manually.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 92

Problem Statement: Find longest word in a sentence.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 93

Problem Statement: Replace all vowels with *.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 94

Problem Statement: Check whether two strings are anagrams.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 95

Problem Statement: Remove duplicate characters from string.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 96

Problem Statement: Find first non-repeating character in string.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 97

Problem Statement: Count uppercase and lowercase letters.
Input Format: Read input from standard input.
Output Format: Print the required output.

Constraints: Standard constraints apply.

Problem 98

Problem Statement: Check whether string contains only digits.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 99

Problem Statement: Generate all substrings of a string.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.

Problem 100

Problem Statement: Compress a string using character counts.
Input Format: Read input from standard input.
Output Format: Print the required output.
Constraints: Standard constraints apply.