▲ HEMADARSHINI R S 2022-BIOMED-A H2 ~ REC-PS

GE19211 / GE23233 / GE23231 - PSPP/PUP

Dashboard / My courses / PSPP/PUP / Functions: Built-in functions, User-defined functions, Recursive functions / Week9_Coding

State Finished

Time taken 9 mins 20 secs

Marks 5.00/5.00

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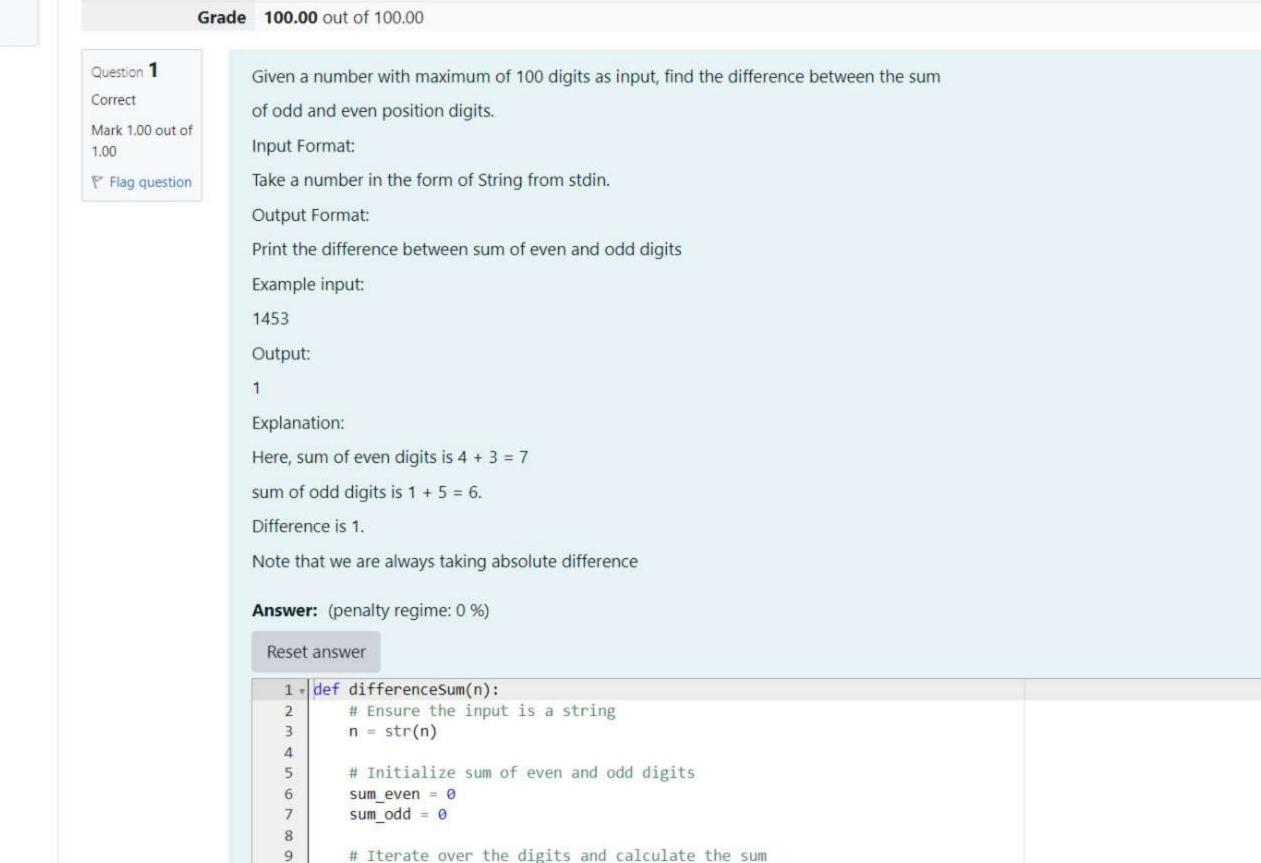
26 27

Correct

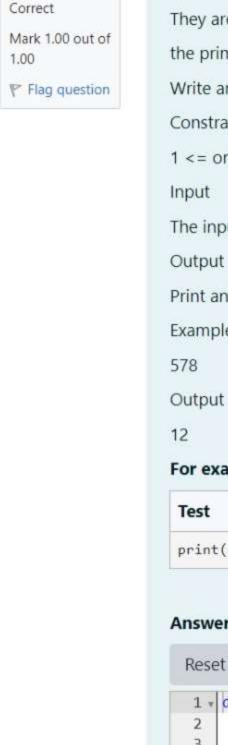
Started on Saturday, 25 May 2024, 9:17 AM

Completed on Saturday, 25 May 2024, 9:27 AM



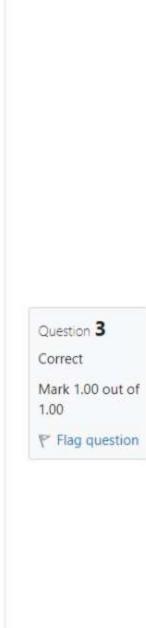


Iterate over the digits and calculate the sum for i, digit in enumerate(n): # Check if the position is even or odd if i % 2 == 0: sum_even += int(digit) else: sum_odd += int(digit) # Calculate and return the difference return abs(sum_even - sum_odd) # Read input until EOFF error 21 while True: try: number = input() print(differenceSum(number)) except EOFError: break **Expected Got** Test print(differenceSum(1453)) 1 Passed all tests! < Marks for this submission: 1.00/1.00.



Question 2

An e-commerce company plans to give their customers a special discount for Christmas. They are planning to offer a flat discount. The discount value is calculated as the sum of all the prime digits in the total bill amount. Write an algorithm to find the discount value for the given total bill amount. Constraints 1 <= orderValue< 10e100000 The input consists of an integer orderValue, representing the total bill amount. Print an integer representing the discount value for the given total bill amount. Example Input For example: Result print(christmasDiscount(578)) 12 Answer: (penalty regime: 0 %) Reset answer 1 def christmasDiscount(n): $A = \{'2', '3', '5', '7'\}$ return sum(int(digit) for digit in str(n) if digit in A)



Test

Passed all tests! <

as the given number.

Test

Marks for this submission: 1.00/1.00.

print(christmasDiscount(578)) 12

Expected Got

An automorphic number is a number whose square ends with the number itself.

For example, 5 is an automorphic number because 5*5 =25. The last digit is 5 which same

Got

Automorphic

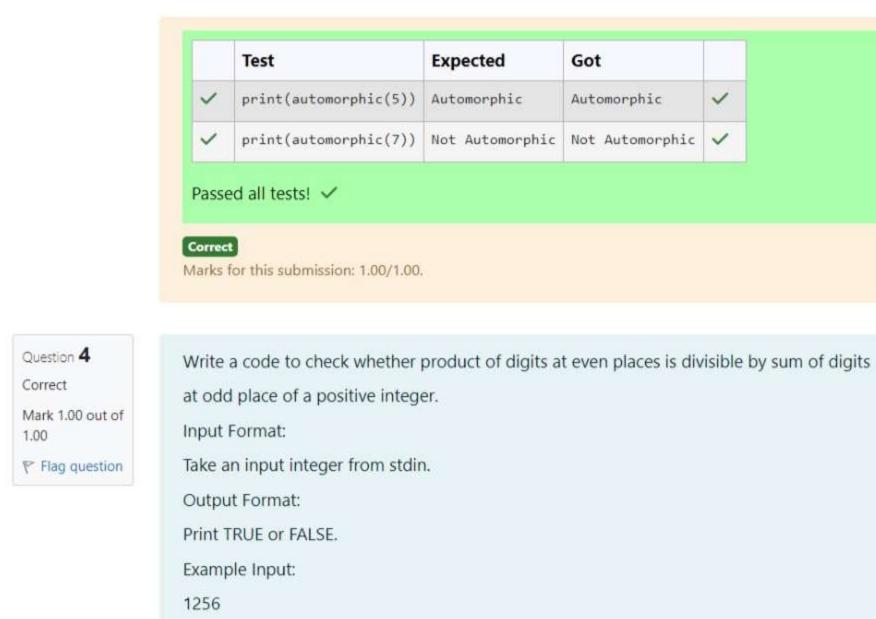
Expected

print(automorphic(7)) Not Automorphic Not Automorphic ✓

print(automorphic(5)) Automorphic

12

If the number is not valid, it should display "Invalid input". If it is an automorphic number display "Automorphic" else display "Not Automorphic". Input Format: Take a Integer from Stdin Output Format: Print Automorphic if given number is Automorphic number, otherwise Not Automorphic Example input: 5 Output: Automorphic Example input: 25 Output: Automorphic Example input: 7 Output: Not Automorphic For example: Test Result print(automorphic(5)) Automorphic Answer: (penalty regime: 0 %) Reset answer 1 def automorphic(n): return "Automorphic" if str(A).endswith(str(n)) else "Not Automorphic"



Take an input integer from stdin. Output Format: Print TRUE or FALSE. Example Input: 1256 Output: TRUE Example Input: 1595 Output: FALSE For example: Result Test print(productDigits(1256)) | True print(productDigits(1595)) False Answer: (penalty regime: 0 %) Reset answer 1 - def productDigits(number): num_str = str(number) product_even = 1 3 $sum_odd = 0$ 4 for i in range(len(num_str)): 5 v digit = int(num_str[i]) if (i + 1) % 2 == 0: product_even *= digit 8 9 else: 10 sum_odd += digit if sum_odd == 0: 11 , 12 return False return product_even % sum_odd == 0 13 14 15 v if __name__ == "__main__": try: 16 number = int(input()) 17 if productDigits(number): 18 print("TRUE") 19 else: 20 print("FALSE") 21 except EOFError: 22 23 pass

print("ValueError: Invalid input. Please enter a positive integer.")



24

25

26

except ValueError:

Expected Got Test print(productDigits(1256)) True True print(productDigits(1595)) False False 🗸 Passed all tests! < Correct Marks for this submission: 1.00/1.00. A number is considered to be ugly if its only prime factors are 2, 3 or 5. [1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 15, ...] is the sequence of ugly numbers. Task: complete the function which takes a number n as input and checks if it's an ugly number. return ugly if it is ugly, else return not ugly Hint: An ugly number U can be expressed as: $U = 2^a * 3^b * 5^c$, where a, b and c are nonnegative integers. For example: Result Test print(checkUgly(6)) ugly print(checkUgly(21)) not ugly Answer: (penalty regime: 0 %) Reset answer 1 - def checkUgly(n): if n <= 0: return "not ugly" while n % 2 == 0: n //= 2 while n % 3 == 0: 6 + n //= 3 while n % 5 == 0: 9 n //= 5 return "ugly" if n == 1 else "not ugly" 10 11

Test

Passed all tests! <

Marks for this submission: 1.00/1.00.

Correct

print(checkUgly(6)) ugly

Expected Got

print(checkUgly(21)) not ugly | not ugly |

ugly

Jump to...

~

\$

Finish review

Searching -