ASWATHY K B 2022-BIOMED-A A2 ~ REC-PS

GE19211 / GE23233 / GE23231 - PSPP/PUP

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Started on Friday, 24 May 2024, 8:59 AM State Finished Show one page at a time

Finish review

Completed on Friday, 24 May 2024, 9:02 AM Time taken 2 mins 19 secs Marks 5.00/5.00

Input Format:

For example:

Reset answer

Test

Passed all tests! <

Marks for this submission: 1.00/1.00.

the prime digits in the total bill amount.

print(christmasDiscount(578)) 12

1 - def christmasDiscount(n):

 $A = \{ '2', '3', '5', '7' \}$

print(christmasDiscount(578)) 12

The only available coins are of values 1, 2, 3, 4

Answer: (penalty regime: 0 %)

1 <= orderValue< 10e100000

Correct

Constraints

Input

Output

578

12

Output

Test

Example Input

For example:

Reset answer

Test

Passed all tests! <

Marks for this submission: 1.00/1.00.

Correct

Input Format:

Output Format:

Example Input:

16

4

25

Output:

Explanation:

Reset answer

Test

Passed all tests! <

Correct

Input Format:

Output Format:

Example input:

12

Yes

13

No

Output:

Explanation

For example:

Reset answer

Test

Passed all tests! <

Marks for this submission: 1.00/1.00.

Correct

Task:

Hint:

Test

For example:

Reset answer

3

6 + 7

8 , 9

10

Test

Passed all tests! <

Marks for this submission: 1.00/1.00.

Correct

→ Week9_MCQ

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Data retention summary

PSPP/PUP

print(checkUgly(6))

print(checkUgly(21)) not ugly

Answer: (penalty regime: 0 %)

1 - def checkUgly(n):

if n <= 0:

Question 5

Mark 1.00 out of

P Flag question

Correct

1.00

print(abundant(12)) Yes

print(abundant(13)) No

return ugly if it is ugly, else return not ugly

Result

ugly

return "not ugly"

return "ugly" if n == 1 else "not ugly"

Expected Got

print(checkUgly(21)) not ugly not ugly 🗸

ugly

Jump to...

Finish review

Searching -

\$

while n % 2 == 0: n //= 2 while n % 3 == 0:

n //= 3 while n % 5 == 0:

n //= 5

print(checkUgly(6)) ugly

print(abundant(12)) Yes

print(abundant(13)) No

Answer: (penalty regime: 0 %)

1 - def abundant(n):

Test

Output:

Explanation

Example input:

Question 4

Mark 1.00 out of

P Flag question

Correct

✓ print(coinChange(16)) 4

Marks for this submission: 1.00/1.00.

Take input an integer from stdin

Return Yes if given number is Abundant. Otherwise, print No

than the given number, 13 is not an abundant number.

Result

3

4 v

5 6

7 8 9

Output:

Explanation:

Example Input:

We need only 4 coins of value 4 each

Answer: (penalty regime: 0 %)

1 - def coinChange(n):

return dp[n]

We need 6 coins of 4 value, and 1 coin of 1 value

coins = [1, 2, 3, 4]

dp = [0] + [float('inf')] * n

for amount in range(1, n + 1):

Expected Got

An abundant number is a number for which the sum of its proper divisors is greater than

The proper divisors of 12 are: 1, 2, 3, 4, 6, whose sum is 1 + 2 + 3 + 4 + 6 = 16. Since sum of

The proper divisors of 13 is: 1, whose sum is 1. Since sum of proper divisors is not greater

proper divisors is greater than the given number, 12 is an abundant number.

A = sum(i for i in range(1, n) if n % i == 0)

Expected Got

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.

Yes 🗸

No

complete the function which takes a number n as input and checks if it's an ugly number.

An ugly number U can be expressed as: $U = 2^a * 3^b * 5^c$, where a, b and c are nonnegative integers.

return "Yes" if A > n else "No"

the number itself. Proper divisors of the number are those that are strictly lesser than the number.

Integer input from stdin.

Question 3

Mark 1.00 out of

P Flag question

Correct

Question 2

Mark 1.00 out of

P Flag question

Correct

1.00

Test

Grade 100.00 out of 100.00

Question 1 Correct Mark 1.00 out of

as the given number. P Flag question

If it is an automorphic number display "Automorphic" else display "Not Automorphic".

Result

print(automorphic(5)) Automorphic

Answer: (penalty regime: 0 %)

1 - def automorphic(n):

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

If the number is not valid, it should display "Invalid input".

Output: Automorphic Example input: 25 Output: Automorphic Example input: 7 Output: Not Automorphic

return "Automorphic" if str(A).endswith(str(n)) else "Not Automorphic"

Expected

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

An e-commerce company plans to give their customers a special discount for Christmas.

Write an algorithm to find the discount value for the given total bill amount.

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.

Result

return sum(int(digit) for digit in str(n) if digit in A)

Expected Got

complete function to implement coin change making problem i.e. finding the minimum

number of coins of certain denominations that add up to given amount of money.

return the minimum number of coins required to meet the given target.

12 🗸

dp[amount] = min(dp[amount - coin] + 1 for coin in coins if amount >= coin)

They are planning to offer a flat discount. The discount value is calculated as the sum of all

print(automorphic(5)) Automorphic

Got

Automorphic

Take a Integer from Stdin Output Format: Print Automorphic if given number is Automorphic number, otherwise Not Automorphic Example input: 5