

Write code here

Problem 7 - Reverse a given integer number.

Example:

Input: 76542 Output: 24567

Write code here

Problem 8: Take a user input as integer N. Find out the sum from 1 to N. If any number if divisible by 5, then
 skip that number. And if the sum is greater than 300, don't need to calculate the sum further more. Print the final result. And don't use for loop to solve this problem.

Example 1:

Input:

30

Output:

276

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Problem 9: Write a program that keeps on accepting a number from the user until the user enters Zero. Display the sum and average of all the numbers.

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Problem 9: Write a program which will find all such numbers which are divisible by 7 but are not a multiple of 5,
between 2000 and 3200 (both included). The numbers obtained should be printed in a comma-separated sequence on a single line.

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Problem 10: Write a program, which will find all such numbers between 1000 and 3000 (both included) such

that each digit of the number is an even number. The numbers obtained should be printed in a space-separated sequence on a single line.

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Problem 11: A robot moves in a plane starting from the original point (0,0). The robot can move toward UP, DOWN, LEFT and RIGHT with a given steps.

The trace of robot movement is shown as the following:

UP 5 DOWN 3 LEFT 3 RIGHT 2

The numbers after the direction are steps.

! means robot stop there.

Please write a program to compute the distance from current position after a sequence of movement and original point.

If the distance is a float, then just print the nearest integer.

Example:

Input:

UP 5

DOWN 3

LEFT 3

RIGHT 2

Output:

2

- # Write code here
- Problem 12:Write a program to print whether a given number is a prime number or not
- # Write code here
- Problem 13:Print all the Armstrong numbers in a given range.

Range will be provided by the user

Armstrong number is a number that is equal to the sum of cubes of its digits. For example 0, 1, 153, 370, 371 and 407 are the Armstrong numbers.

- # Write code here
- Problem 14:Calculate the angle between the hour hand and minute hand.

Note: There can be two angles between hands; we need to print a minimum of two. Also, we need to print the floor of the final result angle. For example, if the final angle is 10.61, we need to print 10.

Input:

H = 9, M = 0

Output:

90

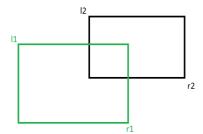
Explanation:

The minimum angle between hour and minute hand when the time is 9 is 90 degress.

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Problem 15: Given two rectangles, find if the given two rectangles overlap or not. A rectangle is denoted by providing the x and y coordinates of two points: the left top corner and the right bottom corner of the rectangle. Two rectangles sharing a side are considered overlapping. (L1 and R1 are the extreme points of the first rectangle and L2 and R2 are the extreme points of the second rectangle).

Note: It may be assumed that the rectangles are parallel to the coordinate axis.



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