

## Problem Title: Check for Perfect Number

### Problem Statement:

Write a C program that takes an integer input from the user and checks whether the given number is a perfect number or not.

A perfect number is a positive integer that is equal to the sum of its proper divisors (excluding itself).

For example:

- 6 is a perfect number because  $1 + 2 + 3 = 6$
- 28 is a perfect number because  $1 + 2 + 4 + 7 + 14 = 28$

### Requirements:

Your program should:

1. Prompt the user to enter a positive integer.
2. Calculate the sum of all proper divisors of that number (divisors less than the number itself).
3. Determine if the number is perfect by comparing it to the sum.
4. Print an appropriate message:
  - If it is a perfect number: "X is a perfect number"
  - If it is not a perfect number: "X is not a perfect number"

### Sample Input/Output:

Sample 1:

Please enter a number: 6

6 is a perfect number

Sample 2:

Please enter a number: 10

10 is not a perfect number

Constraints:

- Input must be a positive integer ( $\geq 1$ ).
- Handle invalid input such as 0 or negative numbers with an error message.