25. Perfect Number

#include <stdio.h>

int main() {

    int num, sum = 0, i;

    printf("Enter a positive integer: ");

    scanf("%d", &num);

    if (num <= 0) {

        printf("Invalid input: Please enter a positive integer.\n");

        return 1; // Indicate error

    }

    printf("The perfect divisors of %d are: ", num);

    for (i = 1; i < num; i++) {

        if (num % i == 0) {

            sum += i;

            printf("%d ", i);

        }

    }

    printf("\n");

    // Check if the sum of divisors is equal to the number

    if (sum == num) {

        printf("%d is a perfect number.\n", num);

    } else {

        printf("%d is not a perfect number.\n", num);

    }

    return 0;

}

