24.PERFECT NUMBER

#include <stdio.h>

#include<stdlib.h>

int isPerfect(int num) {

int sum = 1;

for (int i = 2; i \* i <= num; i++) {

if (num % i == 0) {

sum += i;

if (i != num / i) {

sum += num / i;

}

}

}

return (sum == num);

}

int main() {

int n;

printf("Enter an integer: ");

if(scanf("%d", &n)!= 1) {

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

exit(1);

}

if (isPerfect(n)) {

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

} else {

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

}

return 0;

}

OUTPUT

