

# Day 19: Interfaces!



Welcome to Day 19! Check out [a video review of interfaces here](#), or just jump right into the problem.

Interfaces are an important concept in Java and in a few other languages like C#.

Here you are given an interface *AdvancedArithmetic* which contains a method signature *int divisorSum(int n)*. (The *divisorSum* function just takes an integer as input and return the sum of all its divisors.) Your only task is to write a class *Calculator* which implements the interface.

*Note* : The class *Calculator* shouldn't be public.

Good luck!

## Input Format

Only one line containing integer *n*

## Constraints

$1 \leq n \leq 1000$

## Output Format

In the first line print *"I implemented: AdvancedArithmetic"* without quotes. In the next line print the sum of divisors of *n* as given in problem statement.

## Sample Input

6

## Sample Output

I implemented: AdvancedArithmetic  
12

## Explanation

Divisors of 6 are 1,2,3 and 6.  $1+2+3+6=12$ .