A *cool* number is a number which is divisible by the sum of its proper divisors. All divisors ofn are proper except n itself.

Given the number n, determine if it is cool or not.

**Example**

coolNumber(1) = false

**coolNumber**(2) = true

**coolNumber**(6) = true

**coolNumber**(8) = false

* **[input] integer n**
  + < 5000
* **[output] boolean**
  + true if n is cool, false otherwise

<https://codefights.com/challenge/CatFGCa9NXsZbCJxB>

bool coolNumber(int n) {

int sum = 0;

for (int i = 1; i < n; i++)

{

if (n % i == 0)

{

sum += i;

}

}

if (sum != 0 && n % sum == 0)

{

return true;

}

return false;

}