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The Virtual Learning Environment for Computer Programming

## Perfect numbers

Write a function that tells if a natural $n$ is perfect.
A natural number is called perfect if it is equal to the sum of all its divisors except itself. For instance, 28 is perfect, because $28=1+2+4+7+14$.

## Interface

```
        C++ bool is_perfect (int \(n\) );
    C int is_perfect (int \(n\) );
    Java public static boolean isPerfect (int \(n\) );
Python is_perfect ( \(n\) ) \# returns bool
    is_perfect ( \(n:\) int) \(\rightarrow\) bool
```


## Precondition

$n$ is a natural number.

## Observation

You only need to submit the required procedure; your main program will be ignored.

## Problem information

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