Countries and provinces (2)   P34438_en

UN wants to store information about the organization of its member countries and the provinces that these contain, attached with their GDP (gross domestic product).

The information about a determined province is stored in the following struct:

> **struct** *Province* {
>   **string** *name*;
>   **string** *capital* ;
>   **int** *population* ;
>   **int** *area* ;
>   **double** *gdp*;
> };

The information about a determined country is stored in the following struct:

> **struct** *Country* {
>   **string** *name*;
>   **string** *capital* ;
>   *vector* <*Province*> *provs*;
> };

The information about all the countries is stored in a vector of countries:

> **typedef** *vector*<*Country*> *Countries*;

Using the previous definitions, implement the function

> **int** *population* (**const** *Countries*& *p*, **double** *x*);

that returns the sum of the population of the countries in *p* that have at least 2 provinces with gross domestic product less or equal to *x*.

Observation

You only need to submit the required classes; your main program will be ignored. Strictly obey the type definitions of the statement.

Problem information

Author : Jordi Petit
Translator : Carlos Molina
Generation : 2024-04-30 19:36:00