Countries and provinces (1) P90532_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

```
double gdp(const Countries& p, char c , double d);
```

that returns the sum of the gross domestic products of all the provinces with density stricty greater than *d* of all the countries in *p* that starts with the letter *c*.

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

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