Programación II 2014b - Quiz 09 - 2014-Nov-18. Estudiante: _____

```
class Ctf
{
    std::ifstream input;
    std::string line;
    std::vector<size_t> maxlens;
    size_t field;

  public:
    int run(int argc, char* argv[])
    {
        if ( argc < 2 ) { std::cout << "Usage: ctf FILE\n"; return 0; }
        input.open(argv[1]);
        if ( ! input ) { std::cerr << "ctf: could not open " << argv[1] << std::endl; return 1; }
        pass(0);
        input.clear();
        input.seekg(0);
        pass(1);
        return 0;
    }
    void pass(size_t pass_number)
    {
        while ( std::getline(input, line) )
        {
            field = 0;
            for( size_t prev = 0, pos = line.find(','); prev != line.npos; pos = line.find(',', prev) )
            {
                const std::string& value = line.substr(prev, pos - prev);
                pass_number == 0 ? update_max(value.length()) : print_field(value);
                prev = pos != line.npos ? pos + 1 : line.npos;
                ++field;
            }
            if ( pass_number ) std::cout << std::endl;
        }
    }
    void update_max(size_t len)
    {
        if ( field < maxlens.size() )
            maxlens[field] = std::max(len, maxlens[field]);
        else
            maxlens.push_back(len);
    }
    void print_field(const std::string& value)
    {
        if ( field == 0 ) std::cout << "| ";
        std::cout << std::setw(maxlens[field]) << value << " | ";
    }
};

int main(int argc, char* argv[])
{
    return Ctf().run(argc, argv);
}
```

¿Qué imprime el programa de arriba al correr con el siguiente archivo como entrada?

PRESI,PROM,FRASE
chema,4,se me olvido
dumbo,6.5,si al tlc