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/*
 * Author: Jessica Schuler
 * Date Created: 11-30-13
 * Filename: l92.cpp
 *
 * Overview:
 * User inputs information on 5 movies.
 * Input:
 * User is prompted to input information about 5 movies.
 *
 * Output:
 * After input the user is asked for a genre of movie, and then
 * a name of movie. It then either "rents" the movie for the
 * user or lets them know it is unavailable.
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#include<iostream>
#include<string>

using namespace std;

#define num_movies 5

struct movie_record
{
    string title;
    string description;
    string genre;
    string rating;
    int copies;
};

movie_record addMovie(movie_record *movies, int row);
string request_genre();
void get_movies(movie_record *movies, string userGenre);
void getMovie_info(movie_record *movies);
void rent_movie(movie_record *movies);

int main ()
{
    movie_record *movies;
    movies = new movie_record[num_movies];

    for(int i=0; i<num_movies; i++)
    {
        addMovie(movies,i);
    }

    string userGenre;

    userGenre = request_genre();
    get_movies(movies, userGenre);
    getMovie_info(movies);
    rent_movie(movies);

    delete [] movies;

    return 0;
}

movie_record addMovie(movie_record *movies, int row)
{
    cout<<"Enter the name of the movie: ";
    getline(cin, movies[row].title);
    cout<<"Enter the number of copies available: ";
    cin>>movies[row].copies;
    cout<<"Enter the moving rating in stars: ";
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        getline(cin, movies[row].rating);
        cout<<"Enter a short description of the movie: ";
        getline(cin, movies[row].description);
        cout<<"Enter the movie genre: ";
        getline(cin, movies[row].genre);
        return *movies;
    }
    string request_genre()
    {
        string userGenre;
        cout<<"Now choose a genre for a movie: ";
        getline(cin, userGenre);
        return userGenre;
    }
    void get_movies(movie_record *movies, string userGenre)
    {
        int count = 0;
        cout<<"These movies match your selection: ";
        for(int i=0; i<num_movies; i++)
        {
            cout<<movies[i].genre;
            if(movies[i].genre==userGenre)
            {
                cout<<movies[i].title<<endl;
                count=count+1;
            }
        }
        if(count==0)
        {
            cout<<"Nothing matches your selection!"<<endl;
        }
    }
    void getMovie_info(movie_record *movies)
    {
        string userTitle;
        cout<<"Enter a name of a movie to get information: ";
        getline(cin, userTitle);
        for(int i=0; i<num_movies; i++)
        {
            if(movies[i].title==userTitle)
            {
                cout<<"There are "<<movies[i].copies<<" copies available."<<endl;
                cout<<"This movie has a rating of: "<<movies[i].rating<<endl;
                cout<<"Movie description: "<<movies[i].description<<endl;
                cout<<"Genre: "<<movies[i].genre<<endl;
            }
        }
    }
    void rent_movie(movie_record *movies)
    {
        string userTitle;
        int count=0;
        cout<<"What movie do you want to rent?";
        getline(cin, userTitle);
        for(int i=0;i<num_movies; i++)
        {
            if(movies[i].title==userTitle&&movies[i].copies>0)
            {
                movies[i].copies=movies[i].copies-1;
                count=count+1;
                cout<<"Your movie is rented!";
            }
        }
        if(count==0)
        {
            cout<<"Sorry, that movie is out of stock!"<<endl;
        }
    }
}
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}  
}
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