

OPTION 1

The Longest Title

Download the Basic Title dataset from IMDB : <https://datasets.imdbws.com/title.basics.tsv.gz>

Write a PHP program that will create the longest possible movie title combination.

Rules:

The last word of the current movie title must be the first word of the next movie title used.

Example: Dusk Till Dawn + Dawn of the Planet of the Apes = Dusk Till Dawn of the Planet of the Apes

Only movies may be used, and you may exclude the following words: The, And, A

The program should keep track and display the top 10 combination titles.

The longest title is determined by the number of combinations and not the length of string, and each movie can only be counted once.

1. The SQL schema for the database.
2. PHP code and documentation

OPTION 2

War Game

War is a card game involving two players. The deck is divided evenly among the two players, giving each a down stack. In unison, each player reveals the top card on his deck (a "battle"), and the player with the higher card takes both the cards played and moves them to the bottom of their stack. If the two cards played are of equal value, each player lays down three face-down cards and picks one of the cards out of the three (a "war"), and the higher-valued card wins all of the cards on the table, which are then added to the bottom of the player's stack. If one of the players has no more cards in a battle that player wins that battle. In the case of another tie, the war process is repeated until there is no tie.

A player wins by collecting all the cards. If a player runs out of cards while dealing the face-down cards of a war, they may play the last card in his deck as their face-up card and still have a chance to stay in the game.

Given these rules, define the classes you would implement to build a War simulator, which would log results for each game and each round of each game in a database. The database must also catalog the winner of each round and the winner of each game. Provide the following details of the system:

1. The SQL schema for the database.
2. PHP code and documentation