



ORIGIN
CODE ACADEMY

Magic Night!

Magic Night

Know the Agenda

Understand the Objectives

Learn about the Problem

Solve the Problem

Demo your Solutions

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Tonight's Agenda

6pm

Present the Problem

6pm - 8:30pm

Work on the Problem

8:30pm – 9:30pm

Demo

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Objectives

Practice writing JavaScript to solve problems.

Solve as much of the problem as you can in 2.5 hours.

Beginners – Observe and Learn.

Early to Senior Developers – Pair with Beginners.

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Texas Hold'em!



The Problem

You are a contractor for the World Series Of Poker (WSOP) cable network.

The play-by-play announcers have asked if it is possible to know what hands the players are holding and which hand won the round.

Since this is live TV – they need those answers quick!

The producer has asked you to solve this problem 😊

Each player's cards for the round will be provided to you in a text file that you must read into your NodeJS application.



```
Kc 9s Ks Kd 9d 3c 6d
9c Ah Ks Kd 9d 3c 6d
Ac Qc Ks Kd 9d 3c
9h 5s
4d 2d Ks Kd 9d 3c 6d
7s Ts Ks Kd 9d
```



Each card is a pair of characters. The first character represents the face, the second is the suit. Cards are separated by exactly one space.



```
Kc 9s Ks Kd 9d 3c 6d
9c Ah Ks Kd 9d 3c 6d
Ac Qc Ks Kd 9d 3c
9h 5s
4d 2d Ks Kd 9d 3c 6d
7s Ts Ks Kd 9d
```



Okay, I was going to ask what character to use for 10, but I guess that's "T". And 'c', 'd', h', 's' for the suits, makes sense.



```
Kc 9s Ks Kd 9d 3c 6d
9c Ah Ks Kd 9d 3c 6d
Ac Qc Ks Kd 9d 3c
9h 5s
4d 2d Ks Kd 9d 3c 6d
7s Ts Ks Kd 9d
```



Why aren't seven cards listed
for every player?



```
Kc 9s Ks Kd 9d 3c 6d
9c Ah Ks Kd 9d 3c 6d
Ac Qc Ks Kd 9d 3c
9h 5s
4d 2d Ks Kd 9d 3c 6d
7s Ts Ks Kd 9d
```



Well, if a player folds – only
their initial cards (hole cards)
and the community cards
they've seen so far are shown.



```
Kc 9s Ks Kd 9d 3c 6d  
9c Ah Ks Kd 9d 3c 6d  
Ac Qc Ks Kd 9d 3c  
9h 5s  
4d 2d Ks Kd 9d 3c 6d  
7s Ts Ks Kd 9d
```



Now. Your NodeJS script
should generate output that
looks like this:

```
Kc 9s Ks Kd 9d 3c 6d Full House (winner)
9c Ah Ks Kd 9d 3c 6d Two Pair
Ac Qc Ks Kd 9d 3c
9h 5s
4d 2d Ks Kd 9d 3c 6d Flush
7s Ts Ks Kd 9d
```



Okay, so I repeat the cards, list the rank or nothing if the player folded, and the word “winner” in parentheses next to the winning hand.



```
Kc 9s Ks Kd 9d 3c 6d Full House (winner)
9c Ah Ks Kd 9d 3c 6d Two Pair
Ac Qc Ks Kd 9d 3c
9h 5s
4d 2d Ks Kd 9d 3c 6d Flush
7s Ts Ks Kd 9d
```



Do you want the cards
rearranged at all? To make it
super clear to the announcers
which hand won?



```
Kc 9s Ks Kd 9d 3c 6d Full House (winner)
9c Ah Ks Kd 9d 3c 6d Two Pair
Ac Qc Ks Kd 9d 3c
9h 5s
4d 2d Ks Kd 9d 3c 6d Flush
7s Ts Ks Kd 9d
```



Hmmm... That's an extra.



```
Kc 9s Ks Kd 9d 3c 6d Full House (winner)
9c Ah Ks Kd 9d 3c 6d Two Pair
Ac Qc Ks Kd 9d 3c
9h 5s
4d 2d Ks Kd 9d 3c 6d Flush
7s Ts Ks Kd 9d
```



If you have the time, do it. Don't bother for folded hands, but for ranked hands, move the cards used to the front of the line, sorted by face. Kickers follow that, and the two unused cards go at the end, just before the rank is listed.



```
Kc 9s Ks Kd 9d 3c 6d Full House (winner)
9c Ah Ks Kd 9d 3c 6d Two Pair
Ac Qc Ks Kd 9d 3c
9h 5s
4d 2d Ks Kd 9d 3c 6d Flush
7s Ts Ks Kd 9d
```



Sounds good. One other thing,
I need to brush up on the
different hand ranks, and
honestly I'm not much of a
poker player.



Do you have any good
references for Texas Hold'Em?





ROYAL FLUSH



STRAIGHT FLUSH



FOUR OF A KIND



FULL HOUSE



FLUSH



STRAIGHT



THREE OF A KIND



TWO PAIRS



ONE PAIR



HIGH HAND





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Texas Hold'em Rules and Game Play

By [PokerListings.com](#)

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Learning how to play a game of Texas Hold'em can seem much more difficult than it really is.

The game itself is actually very logical and simple and requires just a few minutes to learn. Mastering it, however, will take you a bit longer.

This article provides all the information you need to start playing the game.

Any time you get confused by the action, read below for some guidance. Each topic also contains links to more in-depth articles on that specific subject.

When you feel you've got the hang of it and are ready to play for real be it in [online poker](#) or live, check out our [Texas Hold'em](#) toplist for the best places to get started.

Quick Glossary

Related Articles

[How to Play Action-Packed Casual Poker Game Estonian Twist](#)
March 24, 2015



Awesome! I think I got it!



```
Kc 9s Ks Kd 9d 3c 6d Full House (winner)
9c Ah Ks Kd 9d 3c 6d Two Pair
Ac Qc Ks Kd 9d 3c
9h 5s
4d 2d Ks Kd 9d 3c 6d Flush
7s Ts Ks Kd 9d
```



Great! Demo is in 2.5 hours,
get to work!



```
Kc 9s Ks Kd 9d 3c 6d Full House (winner)
9c Ah Ks Kd 9d 3c 6d Two Pair
Ac Qc Ks Kd 9d 3c
9h 5s
4d 2d Ks Kd 9d 3c 6d Flush
7s Ts Ks Kd 9d
```



Summary of the Problem

Write a NodeJS script to read in a text file describing the final hands after a round of poker, figure out which hand won, and output the winner in the terminal.

Example Files + Rules

<http://github.com/origincodeacademy/magic-night>

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