

Can you beat the dealer at 21?

Model the game

- create a single deck of playing cards
- two players (called Sam and the Dealer) who will play against each other
- each player is given two cards from the top of a shuffled deck of cards. Cards are given in the following order: [sam, dealer, sam, dealer]

Rules to implement

- determine score of a hand^[1]
- check if either player has Blackjack with their initial hand and wins the game. Blackjack is an initial score of 21 with two cards: A + [10, J, Q, K]
- sam wins when both players starts with Blackjack
- dealer wins when both players starts with 22 (A + A)
- if neither player has Blackjack then sam can start drawing cards from the top of the deck
- sam must stop drawing cards from the deck if their total reaches 17 or higher
- sam has lost the game if their total is higher than 21
- when sam has stopped drawing cards the dealer can start drawing cards from the top of the deck
- the dealer must stop drawing cards when their total is higher than sam.
- the dealer has lost the game if their total is higher than 21
- determine which player wins the game (highest score wins)

[1] Numbered cards are their point value. Jack, Queen and King count as 10 and Ace counts as 11.

Input

The game should be able to read a file containing a deck of cards, taking the reference to the file as a command line argument, as a starting point. If no file is provided, a new shuffled deck of 52 unique cards should be initialized.

The list is in the following format:

CA, D4, H7, SJ,..., S5, S9, D10

Suits:

C: Clubs
D: Diamonds
H: Hearts
S: Spades

Values:

```
2: 2
3: 3
...
10: 10
J: Jack
Q: Queen
K: King
A: Ace
```

Output

At the end, the solution should print the name of the winner to standard out, together with the hands of both sam and the dealer. Using the following format:

```
[sam|dealer]
sam: card1, card2,..., cardN
dealer: card1, card2,..., cardN
```

Example

When supplied with the following cardlist:

CA, D5, H9, HQ, S8

The output should look like:

```
sam
sam: CA, H9
dealer: D5, HQ, S8
```

Testing

The solution should include tests.