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#!/usr/bin/env node
const math = require('mathjs');
const _ = require('lodash');
function buildDeck() {
//suit and rank iterators
var suits = ['Clubs', 'Spades', 'Hearts', 'Diamonds'];
var ranks = ['Ace', 2, 3, 4, 5, 6, 7, 8, 9, 10, 'Jack', 'Queen', 'King'];
var deck = [];
.forEach(suits, function(suit) { .forEach(ranks, function(rank, index) {
//value from rank calculation
var value = null;
if (rank === 'Ace') {
value = 11:
} else if (rank === "Jack" || rank === "Queen" || rank === "King") {
value = 10;
} else {
value = index + 1;
}
    //card creation
    var card = new Object();
    card.rank = rank;
    card.suit = suit;
     card.value = value
    //card added to deck
    deck.push(card);
  })
});
return deck;
}
function buildDecks(numDecks = 6) {
var decks = [];
//loop for number of decks
for (var i = 0; i < numDecks; i++) {
decks.push(buildDeck());
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}
return _.flatten(decks);
}
function shuffle(deck) {
return _.shuffle(deck);
}
function dealCard(deck) {
return deck.shift();
}
function calculateHandValue(hand) {
var hasAce = false;
var value = 0;
var isSoft = false;
_.forEach(hand, function(card) {
if (card.value === 11) {
if (hasAce === false) {
hasAce = true;
isSoft = true;
value += card.value;
} else {
value += 1;
}
} else {
value += card.value;
}
});
if (hasAce == true && value > 21) {
value -= 10;
isSoft = false;
}
var result = new Object();
result.value = value;
result.isSoft = isSoft;
return result;
```

```
}
//
//
//
//
var deck = buildDecks();
deck = shuffle(deck);
var value = { value: null, isSoft: false };
vari = 0
while (value.isSoft === false) {
var hand = [];
hand.push(dealCard(deck));
hand.push(dealCard(deck));
console.log(hand);
value = calculateHandValue(hand);
if (value.isSoft === false){
console.log();
}
console.log(value);
i++;
}
console.log(i + "th hand");
```