SolitaireTwo Report

Boards Used:

eODeal 45 -

([],[[(Ten,Diamonds),(Five,Clubs),(Nine,Hearts),(Ten,Hearts),(Three,Diamonds),(Four,Diamonds)],[(Nine,Clubs),(Queen,Spades),(Ten,Clubs),(King,Clubs),(Queen,Diamonds),(Jack,Diamonds)],[(Six,Spades),(Two,Clubs),(King,Hearts),(Four,Spades),(Eight,Spades),(Two,Hearts)],[(Three,Hearts),(Jack,Spades),(Five,Spades),(Seven,Clubs),(Two,Spades),(Seven,Diamonds)],[(Two,Diamonds),(Ace,Clubs),(Six,Diamonds),(Six,Clubs),(Nine,Spades),(Queen,Clubs)],[(Five,Hearts),(Five,Diamonds),(Queen,Hearts),(King,Spades),(Four,Hearts),(King,Diamonds)],[(Eight,Hearts),(Ten,Spades),(Eight,Diamonds),(Three,Clubs),(Six,Hearts),(Ace,Hearts)],(Seven,Spades),(Four,Clubs),(Jack,Clubs),(Jack,Hearts),(Seven,Hearts),(Eight,Clubs)]],[(Ace,Spades),(Nine,Diamonds),(Ace,Diamonds),(Three,Spades)])

Order -

([],[[(Five,Hearts),(Six,Hearts),(Seven,Hearts),(Eight,Hearts),(Nine,Hearts),(Ten,Hearts)],[(Jack,Hearts),(Queen,Hearts),(King,Hearts),(Ace,Diamonds),(Two,Diamonds),(Three,Diamonds)],[(Four,Diamonds),(Five,Diamonds),(Six,Diamonds),(Seven,Diamonds),(Eight,Diamonds),(Nine,Diamonds)],[(Ten,Diamonds),(Jack,Diamonds),(Queen,Diamonds),(King,Diamonds),(Ace,Clubs),(Two,Clubs)],[(Three,Clubs),(Four,Clubs),(Five,Clubs),(Six,Clubs),(Seven,Clubs),(Eight,Clubs)],[(Nine,Clubs),(Ten,Clubs),(Jack,Clubs),(Queen,Clubs),(King,Clubs),(Ace,Spades)],[(Two,Spades),(Three,Spades),(Four,Spades),(Five,Spades),(Six,Spades),(Seven,Spades)],[(Eight,Spades),(Nine,Spades),(Ten,Spades),(Jack,Spades),(Queen,Spades),(King,Spades)]],[(Ace,Hearts),(Two,Hearts),(Three,Hearts),(Four,Hearts)])

eODeal 34 -

([],[[(King,Hearts),(Queen,Diamonds),(Nine,Clubs),(Two,Hearts),(Ace,Spades),(Two,Spades)],[(King,Clubs),(Six,Clubs),(Five,Clubs),(Four,Hearts),(Three,Clubs),(Ace,Hearts)],[(Three,Hearts),(Eight,Clubs),(Ace,Diamonds),(Jack,Diamonds),(Nine,Hearts),(Five,Hearts)],[(Five,Spades),(Two,Diamonds),(Ace,Clubs),(Jack,Hearts),(Seven,Hearts),(King,Spades)],[(Ten,Clubs),(Ten,Spades),(Nine,Spades),(Queen,Spades),(Eight,Spades),(Two,Clubs)],[(Eight,Diamonds),(Six,Spades),(Four,Clubs),(Three,Diamonds),(Eight,Hearts),(Three,Spades)],[(Jack,Spades),(Queen,Hearts),(King,Diamonds),(Six,Diamonds),(Six,Hearts),(Jack,Clubs)],[(Four,Spades),(Seven,Spades),(Ten,Diamonds),(Four,Diamonds),(Seven,Diamonds),(Ten,Hearts)]],[(Nine,Diamonds),(Queen,Clubs),(Seven,Clubs)])

Function	Test Case	Function Call(s)	Result
eOExpt	Gives back expected information	eOExpt 80 eOExpt 34 eOExpt 5867 eOExpt 1	(2,6.83) (4,9.29) (0,5.62) (2,5.35)
eOGame	Playing game to give back score	eOGame (eODeal 34)	3

		eOGame (eODeal 45)	6
eOGame	Ordered board	eOGame order	52
chooseMove	Ordered board	chooseMove order	Just ([(King,Spades),(King,Clubs),(King,Diamonds),(King,Hearts)],[[],[],[],[],[],[],[],[],[],[],[],[],[
chooseMove	Card in second position in column	chooseMove (eODeal 45)	Just ([(Ace,Clubs),(Ace,Spades),(Two,Diamonds)],[[(Ten,Diamonds),(Five,Clubs),(Nine,Hearts),(Ten,Hearts),(Three,Diamonds),(Four,Diamonds)],[(Nine,Clubs),(Queen,Spades),(Ten,Clubs),(King,Clubs),(Queen,Diamonds)],(Six,Spades),(Two,Clubs),(King,Hearts),(Four,Spades),(Eight,Spades),(Two,Hearts)],[(Three,Hearts),(Jack,Spades),(Five,Spades),(Seven,Clubs),(Two,Spades),(Seven,Diamonds)],[(Six,Diamonds),(Six,Clubs),(Nine,Spades),(Queen,Clubs)],[(Five,Hearts),(Five,Diamonds),(Queen,Hearts),(King,Spades),(Four,Hearts),(King,Diamonds)],[(Eight,Hearts),(Ten,Spades),(Eight,Diamonds),(Three,Clubs),(Jack,Clubs),(Jack,Hearts)],[(Seven,Spades),(Four,Clubs),(Jack,Clubs),(Jack,Hearts),(Seven,Hearts),(Eight,Clubs)]],[(Nine,Diamonds),(Three,Spades)])
chooseMove	kingToEmpty possible	chooseMove (eODeal 34)	Just ([],[[(King,Hearts),(Queen,Diamonds),(Nine,Clubs),(Two,Hearts),(Ace,Spades),(Two,Spades)],[[Queen,Clubs),(King,Clubs),(Six,Clubs),(Five,Clubs),(Four,Hearts),(Three,Clubs),(Ace,Hearts)],[(Three,Hearts),(Eight,Clubs),(Ace,Diamonds),(Jack,Diamonds),(Ace,Clubs),(Five,Hearts),[[Five,Spades),(Two,Diamonds),(Ace,Clubs),(Jack,Hearts),(Seven,Hearts),(King,Spades)],[(Ten,Clubs),(Ten,Spades),(Nine,Spades),(Queen,Spades),(Eight,Spades),(Two,Clubs),[(Eight,Diamonds),(Six,Spades),(Four,Clubs),(Three,Diamonds),(Eight,Hearts),(Three,Spades)],[(Jack,Spades),(Queen,Hearts),(King,Diamonds),(Six,Diamonds),(Six,Hearts),(Jack,Clubs)],[(Four,Spades),(Seven,Spades),(Ten,Diamonds),(Four,Diamonds),(Seven,Diamonds),(Ten,Hearts)]],[(Nine,Diamonds),(Five,Diamonds),(Seven,Clubs)])
chooseMove	No new boards	chooseMove ([(King,Spades),(King,Clubs),(King ,Diamonds),(King, Hearts)],[[],[],[],[],[] ,[],[],[],[])	Nothing
findMoves	Ordered board	findMoves order	[[[(King,Spades),(King,Clubs),(King,Diamonds),(King,Hearts)],[[,],],[,],[,],],],],],[,],],[,],[,],

			Clubs),(Ten,Clubs),(Jack,Clubs),(Queen,Clubs),(King,Clubs),(Ace,Spades)],[(Two,Spades),(Three,Spades),(Four,Spades),(Five,Spades),(Six,Spades),(Seven,Spades)],[[Eight,Spades),(Nine,Spades),(Ten,Spades),(Jack,Spades),(Queen,Spades),(King,Spades)]],[]),([(Seven,Diamonds),(Ace,Diamonds),(Queen,Diamonds),(King,Diamonds),(Ace,Clubs),(Two,Clubs)],[(Three,Clubs),(Four,Clubs),(Five,Clubs),(Six,Clubs),(Jack,Clubs),(Queen,Clubs),(Five,Clubs),(Six,Clubs),(Jack,Clubs),(Queen,Clubs),(King,Clubs),(Ace,Spades)],[(Two,Spades),(Three,Spades),(Four,Spades),(Five,Spades),(Six,Spades),(Seven,Spades)],[(Eight,Spades),(Nine,Spades),(Ten,Spades),(Jack,Spades),(King,Spades),(Jack,Spades),(Jack,Spades),(King,Spades),(Jing,Clubs),(King,Diamonds),(King,Hearts)],[[(Eight,Clubs)],[(Nine,Clubs),(Ten,Clubs),(Jack,Clubs),(Queen,Clubs),(King,Clubs),(Ace,Spades),(Ten,Spades),(Six,Spades),(Seven,Spades),(Jush,Spades),(Five,Spades),(King,Spades),(Six,Spades),(Seven,Spades),(Jing,Spades),(King,Spades),(Six,Spades),(Seven,Spades),(King,Clubs),(King,Spades),(King,Spades),(King,Clubs),(King,Spades),(King,Clubs),(King,Spades),(King,Clubs),(King,Spades),(King,Clubs),(King,Spades),(King,Clubs),(King,Spades),(King,Clubs),(King,Spades),(King,Clubs),(King,Spades),(King,Clubs),(King,Spades),(King,Clubs),(King,Spades),(King,Clubs),(King,Spades),(King,Clubs),(King,Spades),(King,Clubs),(King,Spades),(King,Clubs),(King,Spades),(King,Clubs),(King,Spades
findMoves	eODeal board	findMoves (eODeal 45)	[[((Ace,Clubs),(Ace,Spades),(Two,Diamonds)],[[(Nine,Diamonds),(Ten,Diamonds),(Five,Clubs),(Nine,Hearts),(Ten,Hearts),(Three,Diamonds),(Four,Diamonds)],([(Nine,Clubs),(Queen,Spades),(Ten,Clubs),(King,Clubs),(Queen,Diamonds)),(Jack,Diamonds)],[(Six,Spades),(Two,Clubs),(King,Hearts),(Four,Spades),(Eight,Spades),(Two,Hearts)],[(Three,Hearts),(Jack,Spades),(Five,Spades),(Seven,Clubs),(Tiwo,Spades),(Seven,Diamonds)],[(Six,Diamonds),(Six,Clubs),(Nine,Spades),(Queen,Clubs)],(Five,Hearts),(Five,Diamonds),(Queen,Hearts),(King,Spades),(Four,Clubs),(Six,Clubs),(Jiamonds),(Three,Clubs),(Six,Hearts),(Ace,Hearts),[King,Diamonds),(Tipre,Clubs),(Six,Hearts),(Ace,Hearts)],[(Seven,Spades),(Four,Clubs),(Jack,Clubs),(Jack,Hearts),(Seven,Hearts),(Fight,Clubs),(Jack,Clubs),(Jack,Hearts),(Five,Clubs),(King,Clubs),(Cight,Clubs)

amonds)]),([(Ace,Clubs),(Ace,Spades),(Two,Diamonds)],[[(Ten,Diamonds),(Five,Clubs),(Nine,Hearts),(Ten,He arts),(Three,Diamonds),(Four,Diamonds)],[(Queen,Spa des),(Ten,Clubs),(King,Clubs),(Queen,Diamonds),(Jac k,Diamonds)],[(Six,Spades),(Two,Clubs),(King,Hearts), (Four, Spades), (Eight, Spades), (Two, Hearts)], [(Three, H earts),(Jack,Spades),(Five,Spades),(Seven,Clubs),(Tw o,Spades),(Seven,Diamonds)],[(Six,Diamonds),(Six,CI ubs),(Nine,Spades),(Queen,Clubs)],[(Five,Hearts),(Fiv e, Diamonds), (Queen, Hearts), (King, Spades), (Four, Hearts), (Ving, Spades), (Ving, Spadesrts),(King,Diamonds)],[(Eight,Hearts),(Ten,Spades),(Ei ght, Diamonds), (Three, Clubs), (Six, Hearts), (Ace, Hearts)],[(Seven,Spades),(Four,Clubs),(Jack,Clubs),(Jack,He arts),(Seven,Hearts),(Eight,Clubs)]],[(Nine,Diamonds),(Three, Spades), (Nine, Clubs)]), ([(Two, Clubs), (Ace, Spad es),(Two,Diamonds)],[[(Ten,Diamonds),(Five,Clubs),(N ine, Hearts), (Ten, Hearts), (Three, Diamonds), (Four, Diam onds)],[(Nine,Clubs),(Queen,Spades),(Ten,Clubs),(Kin g,Clubs),(Queen,Diamonds),(Jack,Diamonds)],[(King,H earts),(Four,Spades),(Eight,Spades),(Two,Hearts)],[(T hree, Hearts), (Jack, Spades), (Five, Spades), (Seven, Clu bs),(Two,Spades),(Seven,Diamonds)],[(Six,Diamonds), (Six, Clubs), (Nine, Spades), (Queen, Clubs)], [(Five, Heart s),(Five,Diamonds),(Queen,Hearts),(King,Spades),(Fo ur, Hearts), (King, Diamonds)], [(Eight, Hearts), (Ten, Spad es),(Eight,Diamonds),(Three,Clubs),(Six,Hearts),(Ace, Hearts)],[(Seven,Spades),(Four,Clubs),(Jack,Clubs),(J ack, Hearts), (Seven, Hearts), (Eight, Clubs)]], [(Nine, Diamonto of the context of the contexonds), (Three, Spades), (Six, Spades)]), ([(Ace, Clubs), (Ace, Clubs),e,Spades),(Two,Diamonds)],[[(Ten,Diamonds),(Five,Cl ubs), (Nine, Hearts), (Ten, Hearts), (Three, Diamonds), (Formula of the context of the contextur,Diamonds)],[(Nine,Clubs),(Queen,Spades),(Ten,Clu bs),(King,Clubs),(Queen,Diamonds),(Jack,Diamonds)], [(Six,Spades),(Two,Clubs),(King,Hearts),(Four,Spades),(Eight,Spades),(Two,Hearts)],[(Jack,Spades),(Five,S pades),(Seven,Clubs),(Two,Spades),(Seven,Diamonds)],[(Six,Diamonds),(Six,Clubs),(Nine,Spades),(Queen, Clubs)],[(Five,Hearts),(Five,Diamonds),(Queen,Hearts) ,(King,Spades),(Four,Hearts),(King,Diamonds)],[(Eight, Hearts),(Ten,Spades),(Eight,Diamonds),(Three,Clubs), (Six, Hearts), (Ace, Hearts)], [(Seven, Spades), (Four, Club s),(Jack,Clubs),(Jack,Hearts),(Seven,Hearts),(Eight,Cl ubs)]],[(Nine,Diamonds),(Three,Spades),(Three,Hearts)]),([(Ace,Spades),(Two,Diamonds),(Ace,Clubs)],[[(Ten ,Diamonds),(Five,Clubs),(Nine,Hearts),(Ten,Hearts),(T hree, Diamonds), (Four, Diamonds)], [(Nine, Clubs), (Queen,Spades),(Ten,Clubs),(King,Clubs),(Queen,Diamonds),(Jack,Diamonds)],[(Six,Spades),(Two,Clubs),(King,H earts),(Four,Spades),(Eight,Spades),(Two,Hearts)],[(T hree, Hearts), (Jack, Spades), (Five, Spades), (Seven, Clu bs),(Two,Spades),(Seven,Diamonds)],[(Six,Diamonds), (Six, Clubs), (Nine, Spades), (Queen, Clubs)], [(Five, Heart s),(Five,Diamonds),(Queen,Hearts),(King,Spades),(Fo ur, Hearts), (King, Diamonds)], [(Eight, Hearts), (Ten, Spad es),(Eight,Diamonds),(Three,Clubs),(Six,Hearts),(Ace, Hearts)],[(Seven,Spades),(Four,Clubs),(Jack,Clubs),(J ack, Hearts), (Seven, Hearts), (Eight, Clubs)]], [(Nine, Diam onds),(Three,Spades)]),([(Ace,Clubs),(Ace,Spades),(T wo,Diamonds)],[[(Ten,Diamonds),(Five,Clubs),(Nine,H earts),(Ten,Hearts),(Three,Diamonds),(Four,Diamonds)],[(Nine,Clubs),(Queen,Spades),(Ten,Clubs),(King,Clu bs),(Queen,Diamonds),(Jack,Diamonds)],[(Six,Spades),(Two,Clubs),(King,Hearts),(Four,Spades),(Eight,Spad es),(Two,Hearts)],[(Three,Hearts),(Jack,Spades),(Five, Spades),(Seven,Clubs),(Two,Spades),(Seven,Diamon ds)],[(Six,Diamonds),(Six,Clubs),(Nine,Spades),(Quee n,Clubs)],[(Five,Diamonds),(Queen,Hearts),(King,Spad es),(Four, Hearts),(King, Diamonds)],[(Eight, Hearts),(Te n,Spades),(Eight,Diamonds),(Three,Clubs),(Six,Hearts),(Ace,Hearts)],[(Seven,Spades),(Four,Clubs),(Jack,Cl ubs),(Jack,Hearts),(Seven,Hearts),(Eight,Clubs)]],[(Nin e,Diamonds),(Three,Spades),(Five,Hearts)]),([(Ace,Clu bs),(Ace,Spades),(Two,Diamonds)],[[(Ten,Diamonds),(Five, Clubs), (Nine, Hearts), (Ten, Hearts), (Three, Diamon ds),(Four,Diamonds)],[(Nine,Clubs),(Queen,Spades),(T en, Clubs), (King, Clubs), (Queen, Diamonds), (Jack, Diamonds),onds)], [(Six, Spades), (Two, Clubs), (King, Hearts), (Four,Spades),(Eight,Spades),(Two,Hearts)],[(Three,Hearts), (Jack, Spades), (Five, Spades), (Seven, Clubs), (Two, Spa des),(Seven,Diamonds)],[(Six,Diamonds),(Six,Clubs),(Nine,Spades),(Queen,Clubs)],[(Five,Hearts),(Five,Dia monds),(Queen,Hearts),(King,Spades),(Four,Hearts),(King,Diamonds)],[(Ten,Spades),(Eight,Diamonds),(Thr

			ee,Clubs),(Six,Hearts),(Ace,Hearts)],[(Seven,Spades),(Four,Clubs),(Jack,Clubs),(Jack,Hearts),(Seven,Hearts),(Eight,Clubs)]],[(Nine,Diamonds),(Three,Spades),(Eight,Hearts)]],[(Idce,Clubs),(Ace,Spades),(Two,Diamonds)],[[(Ten,Diamonds),(Five,Clubs),(Nine,Hearts),(Ten,Hearts),(Three,Diamonds),(Four,Diamonds)],[(Nine,Clubs),(Queen,Spades),(Ten,Clubs),(King,Clubs),(Queen,Diamonds),(Jack,Diamonds)],[(Six,Spades),(Two,Clubs),(King,Hearts),(Four,Spades),(Eight,Spades),(Two,Clubs),(King,Hearts),(Four,Spades),(Eight,Spades),(Seven,Clubs),(Two,Spades),(Seven,Diamonds)],[(Six,Diamonds),(Six,Clubs),(Nine,Spades),(Queen,Hearts),(King,Spades),(Five,Diamonds),(Queen,Hearts),(King,Spades),(Four,Hearts),(King,Diamonds),[(Eight,Hearts),(Ten,Spades),(Eight,Diamonds),(Three,Clubs),(Jack,Hearts),(Ace,Hearts),(Eight,Clubs)),[Jack,Clubs),(Jack,Hearts),(Seven,Hearts),(Eight,Clubs))],[(Nine,Diamonds),(Three,Spades),(Seven,Spades)])]
findMoves	eODeal board	findMoves (eODeal 34)	[([].[[(King,Hearts),(Queen,Diamonds),(Nine,Clubs),(Two,Hearts),(Ace,Spades),(Two,Spades)],[(Queen,Clubs),(King,Clubs),(Kix,Clubs),(Five,Clubs),(Four,Hearts),(Three,Clubs),(Ace,Diamonds),(Jack,Diamonds),(Nine,Hearts),(Five,Hearts),[[Eipt,Clubs),(Ace,Diamonds),(Jack,Diamonds),(Ace,Clubs),(Jack,Diamonds),(Ace,Clubs),(Jack,Diamonds),(Ace,Clubs),(Jack,Diamonds),(Ace,Clubs),(Iter,Spades),(Two,Diamonds),(Ace,Clubs),(Iter,Spades),(Two,Clubs)),(Eight,Diamonds),(Six,Spades),(Tou,Clubs),(Three,Diamonds),(Eight,Hearts),(Three,Spades)),(Two,Clubs)),(Eight,Diamonds),(Six,Diamonds),(Six,Diamonds),(Six,Hearts),(Jack,Clubs)),(Four,Spades),(Four,Cubs),(Three,Diamonds),(Tour,Diamonds),(Seven,Diamonds),(Ten,Hearts),(King,Diamonds),(Seven,Diamonds),(Tour,Hearts)),([[King,Hearts),(Queen,Diamonds),(Nine,Clubs),(Till,[[King,Hearts),(Queen,Diamonds),(Nine,Clubs),(Two,Hearts),(Cre,Clubs),(Four,Hearts),(Cre,Clubs),(Four,Hearts),(Cre,Clubs),(Four,Hearts),(Five,Clubs),(Four,Hearts),(Cre,Clubs),(Four,Hearts),(Cre,Spades),(Tive,Diamonds),(Ace,Clubs),(Jack,Diamonds),(Nine,Hearts),(Five,Hearts),[[Four,Spades),(Five,Spades),(Two,Diamonds),(Ace,Clubs),(Jack,Diamonds),(Nine,Hearts),(King,Spades),(Tight,Spades),(Tight,Spades),(Tight,Diamonds),(Cight,Hearts),(Seven,Diamonds),(Four,Diamonds),(Six,Spades),(Four,Clubs),(Three,Diamonds),(Cight,Hearts),(Three,Spades)),(Two,Clubs),(Tight,Diamonds),(Tigh

),(Nine,Hearts),(Five,Hearts)],[(Five,Spades),(Two,Dia monds),(Ace,Clubs),(Jack,Hearts),(Seven,Hearts),(Kin g,Spades)],[(Ten,Spades),(Nine,Spades),(Queen,Spades),(Eight,Spades)),(Two,Clubs)],[(Eight,Diamonds),(Si x,Spades),(Four,Clubs),(Three,Diamonds),(Eight,Hearts),(Three,Spades)],[(Jack,Spades),(Queen,Hearts),(Kin g,Diamonds),(Six,Diamonds),(Six,Hearts),(Jack,Clubs)],[(Four,Spades)],(Seven,Spades),(Ten,Diamonds),(Five,Diamonds),(Seven,Diamonds),(Ten,Hearts)]],((Nine,Diamonds),(Seven,Diamonds),(Ten,Hearts)],(Mine,Clubs),(Two,Hearts),(Ace,Spades),(Two,Spades)],(Iking,Clubs),(Two,Hearts),(Ace,Spades),(Two,Spades)],(Iking,Clubs),(Six,Clubs),(Five,Clubs),(Four,Hearts),(Three,Clubs),(Ace,Hearts)],[(Three,Hearts),(Eight,Clubs),(Ace,Diamonds),(Jack,Diamonds),(Nine,Hearts),(Five,Hearts)],[(Five,Spades),(Two,Diamonds),(Ace,Clubs),(Jack,Diamonds),(Ace,Clubs),(Jack,Diamonds),(Ace,Clubs),(Jack,Diamonds),(Cueen,Spades),(Ten,Clubs),(Ten,Spades),(Two,Diamonds),(Cueen,Spades),(Two,Clubs)],[(Six,Spades),(Four,Clubs),(Eight,Spades),(Two,Clubs)],[(Six,Spades),(Four,Clubs),(Three,Spades),(Two,Clubs)],[(Four,Spades),(Six,Diamonds),(Six,Hearts),(Jack,Clubs)],[(Four,Spades),(Seven,Diamonds),(Six,Hearts),(Jack,Clubs)],[(Four,Spades),(Seven,Diamonds),(Six,Hearts),(Jack,Clubs)],[(Four,Spades),(Seven,Diamonds),(Five,Diamonds),(Six,Diamonds),(Six,Hearts),(Jack,Clubs),(Four,Diamonds),(Five,Diamonds),(Six,Clubs),(Five,Clubs),(Four,Hearts),(Fipt,Clubs),(Tren,Clubs),(Tren,Hearts),(Fire,Clubs),(Four,Hearts),(Fire,Clubs),(Six,Clubs),(Five,Clubs),(Four,Hearts),(Fire,Clubs),(Geven,Spades),(Two,Spades),(Tire,Clubs),(Six,Clubs),(Five,Clubs),(Four,Hearts),(Fire,Diamonds),(Six,Diamonds),(Six,Hearts),(Fire,Diamonds),(Six,Diamonds),(Six,Diamonds),(Six,Hearts),(Fire,Diamonds),(Five,Diamonds),(Five,Diamonds),(Five,Diamonds),(Five,Diamonds),(Five,Diamonds),(Five,Diamonds),(Five,Diamonds),(Five,Diamonds),(Five,Diamonds),(Five,Diamonds),(Five,Diamonds),(Five,Diamonds),(Five,Diamonds),(Five,Diamonds),(Five,Diamonds),(Five,Diamonds),(Five,Diamonds),(Five,Di
boardsNotEqu al	Equal boards	boardsNotEqual (eODeal 45) (eODeal 45)	False
boardsNotEqu al	Unequal boards	boardsNotEqual (eODeal 45) (eODeal 40)	True
boardsNotEqu al	One empty board	boardsNotEqual (eODeal 45) ([],[[]],[])	True
boardsNotEqu al	Two empty boards	boardsNotEqual ([],[[]],[]) ([],[[]],[])	False
getStack	One item stack	getStack [(Ten,Diamonds),	[(Ten,Diamonds)]

p.			
		(Five,Clubs),(Nin e,Hearts),(Ten,He arts),(Three,Diam onds),(Four,Diam onds] []	
getStack	Two item stack	getStack [(Eight,Clubs),(Ni ne,Clubs),(Ten,Cl ubs),(Jack,Clubs) ,(Queen,Clubs),(King,Clubs),(Ace, Spades)] []	[(Nine,Diamonds),(Ten,Diamonds)]
getStack	Whole input is stack	getStack [(Five,Hearts),(Si x,Hearts),(Seven, Hearts),(Eight,He arts),(Nine,Hearts),(Ten,Hearts)] []	[(Five,Hearts),(Six,Hearts),(Seven, Hearts),(Eight,Hearts),(Nine,Heart s),(Ten,Hearts)]
cardSecond	Ordered board - no movable cards	cardSecond order [[(Five,Hearts),(Six,Heart s),(Seven,Hearts),(Eight, Hearts),(Nine,Hearts),(T en,Hearts)],[(Jack,Heart s),(Queen,Hearts),(King, Hearts),(Ace,Diamonds), (Two,Diamonds),(Three, Diamonds)],[(Four,Diam onds),(Five,Diamonds),(Six,Diamonds),(Seven,D iamonds),(Eight,Diamon ds),(Nine,Diamonds)],[(T en,Diamonds),(Jack,Dia monds),(Queen,Diamon ds),(King,Diamonds),(Ac e,Clubs),(Two,Clubs)],[(Three,Clubs),(Four,Club s),(Five,Clubs),(Six,Club s),(Seven,Clubs),(Eight, Clubs)],[(Nine,Clubs),(Te n,Clubs),(Jack,Clubs),(Q ueen,Clubs),(King,Clubs),(Ace,Spades),[(Two,S pades),(Three,Spades),(Four,Spades),(Five,Spa des),(Six,Spades),(Seve n,Spades),(Jack,Spades),(Queen,Spades),(King,S pades)]]	Nothing
cardSecond	Movable card in the second place of a column	cardSecond (eODeal 45) [[(Ten,Diamonds),(Five, Clubs),(Nine,Hearts),(Ten,Hearts),(Three,Diamonds),(Four,Diamonds)],[(Nine,Clubs),(Queen,Spades),(Ten,Clubs),(King,Clubs),(Queen,Diamonds),	Just 4

	(Jack, Diamonds)], [(Six, Spades), (Two, Clubs), (King, Hearts), (Four, Spades), (Eight, Spades), (Two, Hearts)], [(Three, Hearts), (Jack, Spades), (Five, Spades), (Seven, Clubs), (Two, Spades), (Seven, Diamonds), (Ace, Clubs), (Six, Diamonds), (Six, Clubs), (Nine, Spades), (Queen, Clubs)], [(Five, Hearts), (Five, Diamonds), (Queen, Hearts), (King, Spades), (Four, Hearts), (King, Spades), (Four, Hearts), (King, Diamonds)], [(Eight, Hearts), (Ten, Spades), (Eight, Diamonds), (Three, Clubs), (Six, Hearts), (Ace, Hearts)], [(Seven, Spades), (Four, Clubs), (Jack, Clubs), (Jack, Hearts), (Seven, Hearts), (Eight, Clubs)]]	
Empty columns	cardSecond ([],[[]],[]) [[]]	Nothing
No movable cards	cardSecond (eODeal 34) [[(King,Hearts),(Queen,D iamonds),(Nine,Clubs),(Two,Hearts),(Ace,Spade s),(Two,Spades)],[(King,Clubs),(Five,Clubs),(Four,Hearts),(Th ree,Clubs),(Ace,Hearts)], [[(Three,Hearts),(Eight,Clubs),(Ace,Diamonds),(Jack,Diamonds),(Nine,Hearts),(Five,Hearts)],[(Five,Spades),(Two,Diamonds),(Ace,Clubs),(Jack,Hearts),(Seven,Hearts),(King,Spades)],[(Ten,Clubs),(Ten,Spades),(Nine,Spades),(Queen,Spades),(Eight,Spades),(Two,Clubs),[(Eight,Diamonds),(Six,Spades),(Four,Clubs),(Three,Diamonds),(Eight,Hearts),(Three,Spades),(Queen,Hearts),(King,Diamonds),(Six,Diamonds),(Six,Hearts),(Jack,Clubs)],[(Four,Spades),(Seven,Spades),(Ten,Diamonds),(Four,Diamonds),(Seven,Diamonds),(Seven,Diamonds),(Seven,Diamonds),(Seven,Diamonds),(Seven,Diamonds),(Ten,Hearts)]]	Nothing
Ordered board	resToColumns order	[([],[[(Four,Hearts),(Five,Hearts),(Six,Hearts),(Seven,Hearts),(Eight,Hearts),(Nine,Hearts),(Ten,Hearts),[(Jack,Hearts),(Queen,Hearts),(King,Hearts),(Ace,Diamonds),(Two,Diamonds),(Three,Diamonds)],[(Four,Diamonds),(Eight,Diamonds),(Six,Diamonds),(Seven,Diamonds),(Eight,Diamonds),(Nine,Diamonds)],[(Ten,Diamonds),(Jack,Diamonds),(Queen,Diamonds),(King,Diamonds),(Ace,Clubs),(Two,Clubs)],[(Three,Clubs),(Four,Clubs),(Five,Clubs),(Six,Clubs),(Seven,Clubs),(Eig
	No movable cards	pades),(Two,Clubs),(Kin g,Hearts),(Four,Spades), (Eight,Spades),(Two,He arts),[Jirhree,Hearts),(Jack,Spades),(Five,Spade s),(Seven,Clubs),(Two,Spades),(Seven,Clubs),(Two,Spades),(Seven,Clubs),(Nine,Spades),(Six,Clubs),(Nine,Spades),(Six,Clubs),(King,Spades),(Four,Hearts),(King,Spades),(Four,Hearts),(King,Spades),(Four,Hearts),(King,Spades),(Four,Hearts),(King,Spades),(Four,Hearts),(Ace,Hearts),(Ten,Spades),(Eight,Diamonds),(Jack,Clubs),(Jack,Clubs),(Jack,Clubs),(Jack,Hearts),(Geven,Hearts),(Eight,Clubs),(Jack,Glubs),(Jack,Glubs),(Jack,Glubs),(Four,Glubs),(Geven,Diamonds),(Nine,Clubs),(Two,Spades),(King,Clubs),(Four,Hearts),(King,Clubs),(Four,Hearts),(Five,Clubs),(Four,Hearts),(Five,Clubs),(Four,Hearts),(Five,Hearts),(Five,Hearts),(Five,Hearts),(Five,Hearts),(Five,Hearts),(Five,Hearts),(Five,Hearts),(King,Spades),(Two,Diamonds),(Nine,Clubs),(Ten,Spades),(Nine,Spades),(Queen,Spades),(Fure,Clubs),(Four,Diamonds),(Six,Spades),(Four,Clubs),(Fight,Hearts),(Five,Hearts),(King,Spades),(Four,Clubs),(Fight,Hearts),(King,Diamonds),(Six,Spades),(Four,Clubs),(Four,Spades),(Four,Clubs),(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Spades),(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Spades),(Four,Diamonds),(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Spades),(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Spades),(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Spades),(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Spades),(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Diamonds),(Six,Hearts),(Jack,Clubs)],(Four,Diamonds),(Six,Hearts),(Jack,Clubs

			ht,Clubs)],[(Nine,Clubs),(Ten,Clubs),(Jack,Clubs),(Queen,Clubs),(King,Clubs),(Ace,Spades)],[(Two,Spades),(Three,Spades),(Four,Spades),(Five,Spades),(Six,Spades),(Seven,Spades)],[(Eight,Spades),(Nine,Spades),(Ten,Spades),(Jack,Spades),(Queen,Spades),(King,Spades)]],[(Ace,Hearts),(Two,Hearts),(Three,Hearts)])]
resToColumns	eODeal board where moves are possible	resToColumns (eODeal 45)	[([],[[(Nine,Diamonds),(Ten,Diamonds),(Five,Clubs),(Nine,Hearts),(Ten,Hearts),(Three,Diamonds),(Four,Diamonds)],[(Nine,Clubs),(Queen,Spades),(Ten,Clubs),(King,Clubs),(Queen,Diamonds),(Jack,Diamonds)],[(Six,Spades),(Two,Clubs),(King,Hearts),(Four,Spades),(Eight,Spades),(Two,Ohearts)],[(Three,Hearts),(Jack,Spades),(Five,Spades),(Seven,Clubs),(Two,Spades),(Seven,Diamonds)],[(Two,Diamonds),(Ace,Clubs),(Six,Diamonds),(Six,Clubs),(Nine,Spades),(Queen,Clubs)],[(Five,Hearts),(Five,Diamonds),(Queen,Hearts),(King,Spades),(Four,Hearts),(King,Diamonds),(Three,Clubs),(Six,Hearts),(Ace,Hearts)],[(Seven,Spades),(Four,Clubs),(Jack,Clubs),(Jack,Hearts),(Seven,Hearts),(Eight,Clubs)]],[(Ace,Spades),(Ace,Diamonds),(Three,Spades)]),([],[[(Ten,Diamonds),(Five,Clubs),(Nine,Hearts),(Ten,Hearts),(Three,Diamonds),(Four,Diamonds)],[(Nine,Clubs),(Queen,Diamonds),(Jack,Diamonds)],[(Nine,Clubs),(Queen,Diamonds),(Jack,Diamonds)],[(Six,Spades),(Two,Clubs),(King,Hearts),(Four,Spades),(Eight,Spades),(Two,Hearts)],[(Three,Hearts),(Jack,Spades),(Five,Spades),(Seven,Clubs),(Two,Spades),(Seven,Diamonds)],[(Ace,Diamonds),(Two,Diamonds),(Ace,Clubs),(Six,Diamonds),(Two,Diamonds),(Six,Clubs),(Nine,Spades),(Gueen,Hearts),(King,Spades),(Four,Hearts),(King,Diamonds),(Three,Clubs),(Six,Hearts),(Ace,Hearts)],[(Seven,Spades),(Four,Clubs),(Jack,Clubs),(Jack,Hearts),(Seven,Hearts),(Eight,Clubs)]],[(Ace,Spades),(Nine,Diamonds),(Three,Spades))]]
resToColumns	Empty board	resToColumns ([],[[]],[])	
kingToEmpty	Ordered board	kingToEmpty order	
kingToEmpty	Can move a king to an empty column	kingToEmpty ([],[[(King,Hearts),(Quee n,Diamonds),(Nine,Club s),(Two,Hearts),(Ace,Sp ades),(Two,Spades)],[],[(Three,Hearts),(Eight,Clu bs),(Ace,Diamonds),(Jac k,Diamonds),(Nine,Heart s),(Five,Hearts)],[(Five,S pades),(Two,Diamonds), (Ace,Clubs),(Jack,Heart s),(Seven,Hearts),(King, Spades)],[(Ten,Clubs),(T en,Spades),(Nine,Spade s),(Queen,Spades),(Eigh t,Spades),(Two,Clubs)],[(Eight,Diamonds),(Six,S pades),(Four,Clubs),(Thr ee,Diamonds),(Eight,He	[([],[[(Queen,Diamonds),(Nine,Clubs),(Two,Hearts),(Ace,Spades),(Two,Spades)],[(King,Hearts)], [(Three,Hearts),(Eight,Clubs),(Ace,Diamonds),(Jack,Diamonds),(Nine,Hearts),(Five,Hearts)],[(Five,Spades),(Two,Diamonds),(Ace,Clubs),(Jack,Hearts),(Seven,Hearts),(King,Spades)],[(Ten,Clubs),(Ten,Spades),(Nine,Spades),(Queen,Spades),(Eight,Spades),(Two,Clubs)],[(Eight,Diamonds),(Six,Spades),(Four,Clubs),(Three,Diamonds),(Eight,Hearts),(Three,Spades)],[(Jack,Spades),(Queen,Hearts),(King,Diamonds),(Six,Diamonds),(Six,Hearts),(Jack,Clubs)],[(Four,Spades),(Seven,Spades),(Ten,Diamonds),(Four,Diamonds),(Seven,Diamonds),(Ten,Hearts)]],[(Nine,Diamonds),(Five,Diamonds),(Queen,Clubs),(Seven,Clubs)])]

		arts),(Three,Spades)],[(Jack,Spades),(Queen,Hearts),(King,Diamonds),(Six,Diamonds),(Six,Hearts),(Jack,Clubs)],[(Four,Spades),(Seven,Spades),(Ten,Diamonds),(Four,Diamonds),(Seven,Diamonds),(Ten,Hearts)]],[(Nine,Diamonds),(Five,Diamonds),(Queen,Clubs),(Seven,Clubs)])	
kingToEmpty	One king and no empty columns	kingToEmpty ([],[[(King,Hearts),(Quee n,Diamonds),(Nine,Club s),(Two,Hearts),(Ace,Sp ades),(Two,Spades)],[(Si x,Clubs),(Five,Clubs),(F our,Hearts),(Three,Clubs),(Ace,Hearts)],[(Three,H earts),(Eight,Clubs),(Ace ,Diamonds),(Jack,Diamo nds),(Nine,Hearts),(Five, Hearts)],[(Five,Spades),(Two,Diamonds),(Ace,Cl ubs),(Jack,Hearts),(Seve n,Hearts),(King,Spades)] ,[(Ten,Clubs),(Ten,Spad es),(Nine,Spades),(Que en,Spades),(Eight,Spad es),(Two,Clubs)],[(Eight, Diamonds),(Six,Spades) ,(Four,Clubs),(Three,Dia monds),(Eight,Hearts),(T hree,Spades)],[(Jack,Sp ades),(Queen,Hearts),(K ing,Diamonds),(Six,Diam onds),(Six,Hearts),(Jack, Clubs)],[(Four,Spades),(Seven,Spades),(Ten,Dia monds),(Four,Diamonds)),(Seven,Diamonds),(Te n,Hearts)]],[(Nine,Diamo nds),(Five,Diamonds),(Q ueen,Clubs),(Seven,Clu bs)]])	[([],[[(King,Hearts),(Queen,Diamonds),(Nine,Clubs),(Two,Hearts),(Ace,Spades),(Two,Spades)],[(Six,Clubs),(Five,Clubs),(Four,Hearts),(Three,Clubs),(Ace,Hearts)],[(Three,Hearts),(Eight,Clubs),(Ace,Diamonds),(Jack,Diamonds),(Nine,Hearts),(Five,Hearts)],[(Five,Spades),(Two,Diamonds),(Ace,Clubs),(Jack,Hearts),(Seven,Hearts),(King,Spades),[(Ten,Clubs),(Ten,Spades),(Two,Clubs),(Queen,Spades),(Eight,Spades),(Four,Clubs),(Three,Diamonds),(Eight,Hearts),(Three,Spades)],[(Jack,Spades),(Queen,Hearts),(King,Diamonds),(Six,Diamonds),(Six,Hearts),(Jack,Clubs)],[(Four,Spades),(Seven,Spades),(Ten,Diamonds),(Four,Diamonds),(Seven,Diamonds),(Ten,Hearts)]],[(Nine,Diamonds),(Five,Diamonds),(Queen,Clubs),(Seven,Clubs)])]
stackToReser	Move stack of one item to reserves only	stackToReserves (eODeal 45)	[([],[[(Five,Clubs),(Nine,Hearts),(Ten,Hearts),(Three,Di amonds),(Four,Diamonds)],[(Nine,Clubs),(Queen,Spad es),(Ten,Clubs),(King,Clubs),(Queen,Diamonds),(Jack, Diamonds)],[(Six,Spades),(Two,Clubs),(King,Hearts),(Four,Spades),(Eight,Spades),(Two,Hearts)],[(Three,He arts),(Jack,Spades),(Five,Spades),(Seven,Clubs),(Two,Spades),(Seven,Diamonds)],[(Two,Diamonds),(Ace,Cl ubs),(Six,Diamonds),(Six,Clubs),(Nine,Spades),(Quee n,Clubs)],[(Five,Hearts),(Five,Diamonds),(Queen,Heart s),(King,Spades),(Four,Hearts),(King,Diamonds)],[(Eig ht,Hearts),(Ten,Spades),(Eight,Diamonds),(Three,Clubs),(Jack,Clubs),(Jack,Hearts),[(Seven,Spades),(Four,Clubs),(Jack,Clubs),(Jack,Hearts),(Four,Diamonds)],[(Mre,Spades),(Ten,Diamonds),(Ace,Diamonds),(Three,Spades),(Ten,Diamonds)],(Ji,[(Ten,Diamonds),(Five,Clubs),(Nine,Hearts),(Ten,Hearts),(Three,Diamonds),(Four,Diamonds)],[(Queen,Spades),(Ten,Clubs),(King,Clubs),(Queen,Diamonds)],[(Six,Spades),(Two,Clubs),(King,Hearts),(Four,Spades),(Eight,Spades),(Two,Hearts),[(Three,Hearts),(Jack,Spades),(Five,Spades),(Seven,Clubs),(Six,Diamonds)],[(Five,Diamonds)],[(Five,Hearts),(Six,Diamonds),(Ace,Clubs),(Six,Diamonds),(Six,Clubs),(Six,Diamonds),(Queen,Clubs),(Six,Diamonds),(Six,Clubs),(Six,Diamonds),(Queen,Clubs),(Six,Diamonds),(Six,Clubs),(Six,Diamonds),(Queen,Clubs),(Six,Diamonds),(Six,Clubs),(Six,Diamonds),(Queen,Clubs),(Six,Diamonds),(Six,Clubs),(Six,Diamonds),(Queen,Clubs),(Six,Diamonds),(Six,Clubs),(Six,Diamonds),(Queen,Clubs),(Six,Diamonds),(Six,Clubs),(Six,Diamonds),(Queen,Clubs),(Six,Diamonds),(Five,Diamonds),(Queen,Hearts),(King,Spades),(Four,Hearts),(King,Diamonds)],(Ifeight,Hearts),(Ten,Spades),(Eight,Diamonds),(Three,Clubs),(Six,Hearts),(Five,Diamonds),(Three,Clubs),(Six,Hearts),(Five,Diamonds),(Three,Clubs),(Six,Hearts),(Five,Diamonds),(Three,Clubs),(Six,Hearts),(Five,Diamonds),(Three,Clubs),(Six,Hearts),(Five,Diamonds),(Three,Clubs),(Six,Hearts),(Five,Diamonds),(Three,Clubs),(Six,Hearts),(Five,Diamonds),(Three,Clubs),(Six,Hearts),(Five,Diamonds),(Three,Clubs),(Six,Diamonds),(Chean,Clubs),(

s),(Ace,Hearts)],[(Seven,Spades),(Four,Clubs),(Jack,C lubs),(Jack,Hearts),(Seven,Hearts),(Eight,Clubs)]],[(Ac e, Spades), (Nine, Diamonds), (Ace, Diamonds), (Three, S pades),(Nine,Clubs)]),([],[[(Ten,Diamonds),(Five,Clubs) ,(Nine, Hearts),(Ten, Hearts),(Three, Diamonds),(Four, Di amonds)],[(Nine,Clubs),(Queen,Spades),(Ten,Clubs),(King, Clubs), (Queen, Diamonds), (Jack, Diamonds)], [(Tw o,Clubs),(King,Hearts),(Four,Spades),(Eight,Spades),(Two, Hearts)],[(Three, Hearts),(Jack, Spades),(Five, Spa des),(Seven,Clubs),(Two,Spades),(Seven,Diamonds)], [(Two,Diamonds),(Ace,Clubs),(Six,Diamonds),(Six,Clu bs),(Nine,Spades),(Queen,Clubs)],[(Five,Hearts),(Five, Diamonds),(Queen,Hearts),(King,Spades),(Four,Heart s), (King, Diamonds)], [(Eight, Hearts), (Ten, Spades), (Eight, Hearts), (Eht,Diamonds),(Three,Clubs),(Six,Hearts),(Ace,Hearts)], [(Seven,Spades),(Four,Clubs),(Jack,Clubs),(Jack,Hear ts),(Seven,Hearts),(Eight,Clubs)]],[(Ace,Spades),(Nine, Diamonds),(Ace,Diamonds),(Three,Spades),(Six,Spad es)]),([],[[(Ten,Diamonds),(Five,Clubs),(Nine,Hearts),(T en, Hearts), (Three, Diamonds), (Four, Diamonds)], [(Nine, Clubs),(Queen,Spades),(Ten,Clubs),(King,Clubs),(Que en, Diamonds), (Jack, Diamonds)], [(Six, Spades), (Two, Cl ubs),(King, Hearts),(Four, Spades),(Eight, Spades),(Two ,Hearts)],[(Jack,Spades),(Five,Spades),(Seven,Clubs), (Two,Spades),(Seven,Diamonds)],[(Two,Diamonds),(A ce,Clubs),(Six,Diamonds),(Six,Clubs),(Nine,Spades),(Queen, Clubs)], [(Five, Hearts), (Five, Diamonds), (Queen Hearts),(King,Spades),(Four,Hearts),(King,Diamonds)], [(Eight, Hearts), (Ten, Spades), (Eight, Diamonds), (Three, Clubs),(Six,Hearts),(Ace,Hearts)],[(Seven,Spades),(Fo ur,Clubs),(Jack,Clubs),(Jack,Hearts),(Seven,Hearts),(E ight,Clubs)]],[(Ace,Spades),(Nine,Diamonds),(Ace,Dia monds),(Three,Spades),(Three,Hearts)]),([],[[(Ten,Dia monds),(Five,Clubs),(Nine,Hearts),(Ten,Hearts),(Three ,Diamonds),(Four,Diamonds)],[(Nine,Clubs),(Queen,Sp ades),(Ten,Clubs),(King,Clubs),(Queen,Diamonds),(Ja ck, Diamonds)], [(Six, Spades), (Two, Clubs), (King, Hearts),(Four,Spades),(Eight,Spades),(Two,Hearts)],[(Three, Hearts),(Jack,Spades),(Five,Spades),(Seven,Clubs),(T wo, Spades), (Seven, Diamonds)], [(Ace, Clubs), (Six, Dia monds),(Six,Clubs),(Nine,Spades),(Queen,Clubs)],[(Fi ve, Hearts), (Five, Diamonds), (Queen, Hearts), (King, Spa des),(Four,Hearts),(King,Diamonds)],[(Eight,Hearts),(T en, Spades), (Eight, Diamonds), (Three, Clubs), (Six, Heart s),(Ace,Hearts)],[(Seven,Spades),(Four,Clubs),(Jack,C lubs),(Jack,Hearts),(Seven,Hearts),(Eight,Clubs)]],[(Ac e,Spades),(Nine,Diamonds),(Ace,Diamonds),(Three,S pades), (Two, Diamonds)]), ([], [[(Ten, Diamonds), (Five, Classification of the context of theubs),(Nine, Hearts),(Ten, Hearts),(Three, Diamonds),(Fo ur, Diamonds)], [(Nine, Clubs), (Queen, Spades), (Ten, Clu bs),(King,Clubs),(Queen,Diamonds),(Jack,Diamonds)], [(Six,Spades),(Two,Clubs),(King,Hearts),(Four,Spades),(Eight,Spades),(Two,Hearts)],[(Three,Hearts),(Jack,S pades),(Five,Spades),(Seven,Clubs),(Two,Spades),(S even, Diamonds)], [(Two, Diamonds), (Ace, Clubs), (Six, Di amonds),(Six,Clubs),(Nine,Spades),(Queen,Clubs)],[(F ive, Diamonds), (Queen, Hearts), (King, Spades), (Four, He arts),(King,Diamonds)],[(Eight,Hearts),(Ten,Spades),(E ight, Diamonds), (Three, Clubs), (Six, Hearts), (Ace, Hearts)],[(Seven,Spades),(Four,Clubs),(Jack,Clubs),(Jack,He arts),(Seven,Hearts),(Eight,Clubs)]],[(Ace,Spades),(Nin e,Diamonds),(Ace,Diamonds),(Three,Spades),(Five,He arts)]),([],[[(Ten,Diamonds),(Five,Clubs),(Nine,Hearts),Ten,Hearts),(Three,Diamonds),(Four,Diamonds)],[(Nin e,Clubs),(Queen,Spades),(Ten,Clubs),(King,Clubs),(Q ueen, Diamonds), (Jack, Diamonds)], [(Six, Spades), (Two ,Clubs),(King,Hearts),(Four,Spades),(Eight,Spades),(T wo, Hearts)], [(Three, Hearts), (Jack, Spades), (Five, Spades) es),(Seven,Clubs),(Two,Spades),(Seven,Diamonds)],[(Two, Diamonds), (Ace, Clubs), (Six, Diamonds), (Six, Club s),(Nine,Spades),(Queen,Clubs)],[(Five,Hearts),(Five,D iamonds),(Queen, Hearts),(King, Spades),(Four, Hearts), (King, Diamonds)],[(Ten, Spades),(Eight, Diamonds),(Th ree,Clubs),(Six,Hearts),(Ace,Hearts)],[(Seven,Spades), (Four, Clubs), (Jack, Clubs), (Jack, Hearts), (Seven, Hearts),(Eight,Clubs)]],[(Ace,Spades),(Nine,Diamonds),(Ace, Diamonds),(Three,Spades),(Eight,Hearts)]),([],[[(Ten,Di amonds),(Five,Clubs),(Nine,Hearts),(Ten,Hearts),(Thre e, Diamonds), (Four, Diamonds)], [(Nine, Clubs), (Queen, Sueen, Supades), (Ten, Clubs), (King, Clubs), (Queen, Diamonds), (Jule of Clubs), (Jule of Clubs),ack,Diamonds)],[(Six,Spades),(Two,Clubs),(King,Heart s),(Four,Spades),(Eight,Spades),(Two,Hearts)],[(Three ,Hearts),(Jack,Spades),(Five,Spades),(Seven,Clubs),(

			Two,Spades),(Seven,Diamonds)],[(Two,Diamonds),(Ac e,Clubs),(Six,Diamonds),(Six,Clubs),(Nine,Spades),(Q ueen,Clubs)],[(Five,Hearts),(Five,Diamonds),(Queen,H earts),(King,Spades),(Four,Hearts),(King,Diamonds)],[(Eight,Hearts),(Ten,Spades),(Eight,Diamonds),(Three,C lubs),(Six,Hearts),(Ace,Hearts)],[(Four,Clubs),(Jack,Cl ubs),(Jack,Hearts),(Seven,Hearts),(Eight,Clubs)]],[(Ace,Spades),(Nine,Diamonds),(Ace,Diamonds),(Three,Spades),(Seven,Spades)])]
stackToReserves	Some stacks with two items	stackToReserves ([],[[(Four,Clubs),(Five,Clubs),(Nine,Hearts),(Ten,Hearts),(Ten,Hearts),(Ten,Hearts),(Queen,Spades),(Queen,Diamonds),(Jack,Diamonds)],[(Six,Spades),(Two,Clubs),(King,Hearts),(Four,Spades),(Eight,Spades),(Two,Hearts)],[(Ten,Spades),(Jack,Spades),(Five,Spades),(Seven,Clubs),(Two,Spades),(Seven,Clubs),(Two,Spades),(Six,Diamonds),(Six,Clubs),(Nine,Spades),(Queen,Clubs)],[(Five,Hearts),(Five,Diamonds),(Queen,Hearts),(King,Spades),(Four,Hearts),(King,Spades),(Four,Hearts),(King,Diamonds)],[(Eight,Hearts),(Ten,Spades),(Eight,Diamonds),(Jack,Clubs),(Jack,Hearts),(Seven,Spades),(Ten,Diamonds),(Jack,Clubs),(Jack,Hearts),(Seven,Hearts),(Seven,Spades),(Ten,Diamonds),(Jack,Clubs),(Jack,Hearts),(Seven,Hearts),(Seve	[[[],[[(Nine,Hearts),(Ten,Hearts),(Three,Diamond s),(Four,Diamonds)],[(Nine,Clubs),(Queen,Spad es),(Ten,Clubs),(King,Clubs),(Queen,Diamonds),(Jack,Diamonds)],[(Six,Spades),(Two,Clubs),(King,Hearts),(Four,Spades),(Eight,Spades),(Two,Hearts)],[(Ten,Spades),(Jack,Spades),(Seven,Diamonds)],(Six,Clubs),(Nine,Spades),(Queen,Clubs),(Six,Clubs),(Nine,Spades),(Queen,Hearts),(King,Diamonds),(Gueen,Hearts),(Five,Diamonds),(Queen,Hearts),(King,Spades),(Four,Hearts),(King,Diamonds),(Three,Clubs),(Six,Hearts),(Ace,Hearts),[(Seven,Spades),(Ten,Diamonds),(Jack,Clubs),(Jack,Hearts),(Seven,Hearts),(Eight,Clubs))],([Five,Clubs)),(Jine,Diamonds),(Ace,Diamonds),(Three,Spades),(Four,Clubs),(Five,Clubs))],([Five,Clubs)),(I],[(Four,Clubs),(Five,Clubs)]),([Five,Clubs)),(I],([Four,Clubs),(Five,Clubs)),(I],([Four,Clubs),(Five,Clubs)),(I],([Four,Clubs),(Five,Clubs)),(I],([Four,Clubs),(Cueen,Diamonds),(Jack,Diamonds)],([Six,Spades),(Ten,Clubs),(King,Clubs),(Queen,Diamonds),(Jack,Diamonds)],([Six,Spades),(Two,Hearts),(Four,Spades),(Seven,Clubs),(Two,Spades),(Seven,Diamonds),(Jick,Clubs),(King,Clubs),(King,Clubs),(King,Clubs),(Vine,Spades),(Ten,Clubs),(King,Clubs),(Cueen,Diamonds),(Jack,Clubs),(Six,Diamonds)],(Ifwo,Diamonds),(Jack,Clubs),(Six,Clubs),(King,Clubs),(

,Diamonds)],[(Eight,Hearts),(Ten,Spades),(Eight ,Diamonds),(Three,Clubs),(Six,Hearts),(Ace,He arts)],[(Seven,Spades),(Ten,Diamonds),(Jack,Cl ubs),(Jack,Hearts),(Seven,Hearts),(Eight,Clubs)]],[(Ace,Spades),(Nine,Diamonds),(Ace,Diamon ds),(Three,Spades),(Six,Spades)]),([],[[(Four,Clu bs),(Five,Clubs),(Nine,Hearts),(Ten,Hearts),(Thr ee, Diamonds), (Four, Diamonds)], [(Nine, Clubs), (Queen, Spades), (Ten, Clubs), (King, Clubs), (Quee n,Diamonds),(Jack,Diamonds)],[(Six,Spades),(T wo, Clubs), (King, Hearts), (Four, Spades), (Eight, S pades),(Two,Hearts)],[(Ten,Spades),(Jack,Spad es),(Five, Spades),(Seven, Clubs),(Two, Spades), (Seven, Diamonds)],[(Ace, Clubs),(Six, Diamonds),(Six,Clubs),(Nine,Spades),(Queen,Clubs)],[(Fi ve, Hearts), (Five, Diamonds), (Queen, Hearts), (Ki ng, Spades), (Four, Hearts), (King, Diamonds)], [(Ei ght, Hearts), (Ten, Spades), (Eight, Diamonds), (Th ree,Clubs),(Six,Hearts),(Ace,Hearts)],[(Seven,S pades),(Ten,Diamonds),(Jack,Clubs),(Jack,Hea rts),(Seven, Hearts),(Eight, Clubs)]],[(Ace, Spades), (Nine, Diamonds), (Ace, Diamonds), (Three, Spades),(Two,Diamonds)]),([],[[(Four,Clubs),(Five,C lubs),(Nine,Hearts),(Ten,Hearts),(Three,Diamon ds),(Four,Diamonds)],[(Nine,Clubs),(Queen,Spa des),(Ten,Clubs),(King,Clubs),(Queen,Diamond s),(Jack,Diamonds)],[(Six,Spades),(Two,Clubs), (King, Hearts), (Four, Spades), (Eight, Spades), (T wo, Hearts)], [(Ten, Spades), (Jack, Spades), (Five, Spades), (Seven, Clubs), (Two, Spades), (Seven, D iamonds)],[(Two,Diamonds),(Ace,Clubs),(Six,Di amonds),(Six,Clubs),(Nine,Spades),(Queen,Clu bs)],[(Five,Diamonds),(Queen,Hearts),(King,Sp ades),(Four,Hearts),(King,Diamonds)],[(Eight,H earts),(Ten,Spades),(Eight,Diamonds),(Three,Cl ubs),(Six,Hearts),(Ace,Hearts)],[(Seven,Spades),(Ten,Diamonds),(Jack,Clubs),(Jack,Hearts),(S even, Hearts), (Eight, Clubs)]], [(Ace, Spades), (Nin e,Diamonds),(Ace,Diamonds),(Three,Spades),(Five, Hearts)]),([],[[(Four, Clubs),(Five, Clubs),(Nin e,Hearts),(Ten,Hearts),(Three,Diamonds),(Four, Diamonds)],[(Nine,Clubs),(Queen,Spades),(Ten ,Clubs),(King,Clubs),(Queen,Diamonds),(Jack,D iamonds)],[(Six,Spades),(Two,Clubs),(King,Hea rts),(Four,Spades),(Eight,Spades),(Two,Hearts)] ,[(Ten,Spades),(Jack,Spades),(Five,Spades),(S even, Clubs), (Two, Spades), (Seven, Diamonds)], [(Two, Diamonds), (Ace, Clubs), (Six, Diamonds), (S ix,Clubs),(Nine,Spades),(Queen,Clubs)],[(Five, Hearts),(Five,Diamonds),(Queen,Hearts),(King, Spades),(Four, Hearts),(King, Diamonds)],[(Ten, Spades),(Eight,Diamonds),(Three,Clubs),(Six,H earts),(Ace,Hearts)],[(Seven,Spades),(Ten,Dia monds),(Jack,Clubs),(Jack,Hearts),(Seven,Hear ts),(Eight,Clubs)]],[(Ace,Spades),(Nine,Diamond s),(Ace,Diamonds),(Three,Spades),(Eight,Heart s)]),([],[[(Four,Clubs),(Five,Clubs),(Nine,Hearts), (Ten, Hearts), (Three, Diamonds), (Four, Diamonds)],[(Nine,Clubs),(Queen,Spades),(Ten,Clubs),(Ki ng,Clubs),(Queen,Diamonds),(Jack,Diamonds)], [(Six,Spades),(Two,Clubs),(King,Hearts),(Four, Spades),(Eight,Spades),(Two,Hearts)],[(Ten,Sp ades),(Jack,Spades),(Five,Spades),(Seven,Clu bs),(Two,Spades),(Seven,Diamonds)],[(Two,Dia monds),(Ace,Clubs),(Six,Diamonds),(Six,Clubs), (Nine, Spades), (Queen, Clubs)], [(Five, Hearts), (Fi ve, Diamonds), (Queen, Hearts), (King, Spades), (F our, Hearts), (King, Diamonds)], [(Eight, Hearts), (T en, Spades), (Eight, Diamonds), (Three, Clubs), (Si x,Hearts),(Ace,Hearts)],[(Ten,Diamonds),(Jack,

			Clubs),(Jack,Hearts),(Seven,Hearts),(Eight,Clubs)]],[(Ace,Spades),(Nine,Diamonds),(Ace,Diamonds),(Three,Spades),(Seven,Spades)])]
colToColumns	No cards to move	colToColumns ([],[[(King,Hearts),(Quee n,Diamonds),(Nine,Club s),(Two,Hearts),(Ace,Sp ades),(Two,Spades)],[(Ki ng,Clubs),(Six,Clubs),(Fi ve,Clubs),(Four,Hearts),(Three,Clubs),(Ace,Heart s)],[(Three,Hearts),(Eight ,Clubs),(Ace,Diamonds), (Jack,Diamonds),(Nine, Hearts),(Five,Hearts)],[(Five,Spades),(Two,Diam onds),(Ace,Clubs),(Jack, Hearts),(Seven,Hearts),(King,Spades)],[(Ten,Clu bs),(Ten,Spades),(Nine, Spades),(Queen,Spades),(Eight,Spades),(Two,Cl ubs)],[(Eight,Diamonds), (Six,Spades),(Four,Club s),(Three,Diamonds),(Ei ght,Hearts),(Three,Spad es)],[(Jack,Spades),(Qu een,Hearts),(King,Diamo nds),(Six,Diamonds),(Six ,Hearts),(Jack,Clubs)],[(Seven,Spades),(Ten,Dia monds),(Four,Diamonds)),(Seven,Diamonds),(Q ueen,Clubs)],(Seven,Clu bs)])	
colToColumns	One card to move to another column	colToColumns (eODeal 34)	[([],[[(King,Hearts),(Queen,Diamonds),(Nine,Clubs),(Two,Hearts),(Ace,Spades),(Two,Spades)],[(King,Clubs),(Six,Clubs),(Five,Clubs),(Four,Hearts),(Three,Clubs),(Ace,Hearts)],[(Three,Hearts),(Eight,Clubs),(Ace,Diamonds),(Jack,Diamonds),(Nine,Hearts),(Five,Hearts)],[(Four,Spades),(Five,Spades),(Two,Diamonds),(Ace,Clubs),(Jack,Hearts),(Seven,Hearts),(King,Spades)],[(Ten,Clubs),(Ten,Spades),(Nine,Spades),(Queen,Spades),(Eight,Spades),(Two,Clubs)],[(Eight,Diamonds),(Six,Spades),(Four,Clubs),(Three,Diamonds),(Eight,Hearts),(Three,Spades)],[(Jack,Spades),(Queen,Hearts),(King,Diamonds),(Six,Diamonds),(Six,Hearts),(Jack,Clubs)],[(Seven,Spades),(Ten,Diamonds),(Four,Diamonds),(Four,Diamonds),(Five,Diamonds),(Coueen,Clubs)]],[(Nine,Diamonds),(Five,Diamonds),(Queen,Clubs),(Seven,Clubs)]]]
colToColumns	Multiple cards can move	([].[[(King,Hearts),(Quee n,Diamonds),(Nine,Club s),(Two,Hearts),(Ace,Sp ades),(Two,Spades)],[(Ki ng,Clubs),(Six,Clubs),(Fi ve,Clubs),(Four,Hearts),(Three,Clubs),(Ace,Heart s)],[(Three,Hearts),(Eight ,Clubs),(Ace,Diamonds), (Jack,Diamonds),(Nine, Hearts),(Five,Hearts)],[(Five,Spades),(Two,Diam	[([],[[(King,Hearts),(Queen,Diamonds),(Nine,Clubs),(Ace,Spades),(Two,Spades)],[(King,Clubs),(Six,Clubs),(Five,Clubs),(Four,Hearts),(Three,Clubs),(Ace,Hearts)],[(Two,Hearts),(Jack,Diamonds),(Light,Clubs),(Ace,Diamonds),(Jack,Diamonds),(Nine,Hearts),(Five,Hearts)],[(Five,Spades),(Two,Diamonds),(Ace,Clubs),(Jack,Hearts),(Seven,Hearts),(King,Spades)],[(Ten,Clubs),(Ten,Spades),(Nine,Spades),(Queen,Spades),(Eight,Spades),(Two,Clubs)],[(Eight,Diamonds),(Six,Spades),(Four,Clubs),(Three,Diamonds),(Eight,Hearts),(Three,Spades)],[(Jack,Spades),(Queen,Hearts)

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onds),(Ace,Clubs),(Jack, Hearts),(Seven,Hearts),(King, Spades)],[(Two, He arts),(Ten,Clubs),(Ten,S pades),(Nine,Spades),(Queen, Spades), (Eight, S pades),(Two,Clubs)],[(Ei ght,Diamonds),(Six,Spa des),(Four,Clubs),(Three ,Diamonds),(Eight,Heart s),(Three,Spades)],[(Jac k,Spades),(Queen,Heart s),(King,Diamonds),(Six, Diamonds),(Six,Hearts),(Jack, Clubs)], [(Four, Spad es),(Seven,Spades),(Te n,Diamonds),(Four,Diam onds),(Seven,Diamonds) ,(Ten,Hearts)]],[(Nine,Di amonds),(Five,Diamond s),(Queen,Clubs),(Seven ,Clubs)])

,(King,Diamonds),(Six,Diamonds),(Six,Hearts),(Jack,Clubs)],[(Four,Spades),(Seven,Spades),(T en, Diamonds), (Four, Diamonds), (Seven, Diamon ds),(Ten,Hearts)]],[(Nine,Diamonds),(Five,Diam onds),(Queen,Clubs),(Seven,Clubs)]),([],[[(King, Hearts),(Queen,Diamonds),(Nine,Clubs),(Two,H earts),(Ace,Spades),(Two,Spades)],[(King,Club s),(Six,Clubs),(Five,Clubs),(Four,Hearts),(Three, Clubs),(Ace,Hearts)],[(Three,Hearts),(Eight,Club s),(Ace,Diamonds),(Jack,Diamonds),(Nine,Hear ts),(Five, Hearts)],[(Four, Spades),(Five, Spades), (Two, Diamonds), (Ace, Clubs), (Jack, Hearts), (Sev en, Hearts), (King, Spades)], [(Two, Hearts), (Ten, C lubs),(Ten,Spades),(Nine,Spades),(Queen,Spa des),(Eight,Spades),(Two,Clubs)],[(Eight,Diamo nds),(Six,Spades),(Four,Clubs),(Three,Diamond s),(Eight,Hearts),(Three,Spades)],[(Jack,Spade s),(Queen,Hearts),(King,Diamonds),(Six,Diamo nds),(Six,Hearts),(Jack,Clubs)],[(Seven,Spades) ,(Ten,Diamonds),(Four,Diamonds),(Seven,Diam onds),(Ten,Hearts)]],[(Nine,Diamonds),(Five,Dia monds),(Queen,Clubs),(Seven,Clubs)])]

Results:

Number of wins - [3,1,3,2,1,2,3,6,3,6]

Mean - 3

Standard Deviation - 1.67332

Scores - [6.69,5.78,7.08,5.72,5.93,5.44,6.41,7.55,6.5,9.02]

Mean - 6.6

Standard Deviation - 1.1135528

(These scores are rounded to the nearest whole number so meanStats could be used)

Design:



