CMPSCI 240: Reasoning Under Uncertainty Discussion 3

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Poker Hands: A deck of cards consists of 52 cards monds, hearts, spades), and one of thirteen ranks (A consists of 5 cards.	•
One Pair: Two cards have the same rank; others have Two Pairs: Two cards of one rank; two cards of ano Three of a Kind: Three cards of one rank; others has Straight: The five cards have consecutive ranks Flush: The five cards have the same suit Full House: A pair and three of a kind Four of a Kind: Four cards have one rank; and card Straight Flush: A straight that is also a flush	ther rank; and one card of a third rank we different ranks
Answer the following questions and show your wor	rk for each one of them.
How many poker hands are there?:	
How many hands are "four of a kind"?:	
How many hands are "one pair"?:	

How many hands are "two pairs"?:
How many hands are "three of a kind"?:
How many hands are "straight"?:
How many hands are "flush"?:
How many hands are "full house"?:
How many hands are "straight flush"?:
How many hands have no pair and are not flushes or straights?: