

A poker deck contains 52 cards. Each card has a suit of either clubs, diamonds, hearts, or spades (denoted C, D, H, S in the input data). Each card also has a value of either 1 through 10, jack, queen or king (denoted A, 2, 3, 4, 5, 6, 7, 8, 9, T, J, Q, K). For scoring purposes card values are ordered as above, with A having the lowest and K the highest value. The suit has no impact on value.

A poker hand consists of five cards dealt from the deck. See following table.

Pair. : Two of the five cards in the hand have the same value.

Two Pairs. : The hand contains two different pairs.

Triple. : Three of the five cards in the hand have the same value.

Straight. : Hand contains five cards with consecutive values.

Flush. : Hand contains five cards of the same suit.

Full House. : Three cards of the same value, with the remaining two cards forming a pair.

Straight Flush. : Five cards of the same suit with consecutive values.

Score Rules : Straight Flush > Full House > Flush > Straight > Triple > Two Pairs > Pair

Your job is to compare several pairs of poker hands and to indicate which, if either, has a higher score. If no pair in the poker hand, no score is in that. And if two scores are same, you must decide that game is tie game!

Input

The Input file contains several lines, first line containing the number of rounds and each remained lines containing the designation of ten cards: the first five cards are the hand for the player named "*Black*" and the next five cards are the hand for the player named "*White*".

Output

For each line of input, print a line containing one of the following:

Black wins.

White wins.

Tie.

Sample Input	Sample Output
4	White wins.
3C 3H 4S 8C AH AC KC TC JC QC	Black wins.
2H 4S 4C 2D 4H 2S 8S AS QS 3S	Black wins.
2H 2D 2S 9C 9D 2C 3H 4S 8C KH	Tie.
2H 3D 5S 9C KD 2D 3H 5C 9S KH	