```
1 def isValidCard(card: str) -> bool:
 2
       valid_cards = ['A','2','3','4','5','6','7','8','9','10','J','Q','K']
 3
       return card in valid_cards
 4
 5 def validInput(cards: list) -> bool:
 6
       validflag = True
 7
       for card in cards:
            if not isValidCard(card):
8
 9
                validflag = False
10
               break
11
       return validflag
12
13 def transferPoint(card: str) -> float:
14
       porker = ['A','2','3','4','5','6','7','8','9','10','J','Q','K']
15
       point = [1,2,3,4,5,6,7,8,9,10,0.5,0.5,0.5]
       index = porker.index(card)
16
17
       return point[index]
18
19 def justPoint(point: float) -> float:
20
       if point > 10.5:
21
           return 0
22
       else:
23
           return point
24
25 def deal(myPoint: float, card: str) -> float:
       myPoint += transferPoint(card)
26
27
       myPoint = justPoint(myPoint)
28
       return myPoint
```

```
29
30 def winner(playerPoint: float, computerPoint: float) -> str:
       if playerPoint > computerPoint:
31
          return 'player win ' + str(playerPoint) + ' ' + str(computerPoint)
32
33
       elif playerPoint < computerPoint:</pre>
          return 'computer win ' + str(playerPoint) + ' ' + str(computerPoint)
34
35
36
          return 'tie ' + str(playerPoint)
37
   def game(playerCards: list, computerCards: list) -> str:
39
       if validInput(playerCards) and validInput(computerCards):
40
          playerPoint = transferPoint(playerCards[0])
41
          computerPoint = transferPoint(computerCards[0])
42
          playerIndex, computerIndex = 1, 1
43
          playerBust, computerBust = False, False
          while playerIndex < len(playerCards) and playerBust == False:</pre>
44
              playerPoint = deal(playerPoint, playerCards[playerIndex])
45
46
47
              if playerPoint == 0:
48
                  playerBust = True
49
              else:
50
                  playerIndex += 1
51
          while computerIndex < len(computerCards) and computerBust == False:</pre>
52
              computerPoint = deal(computerPoint, computerCards[computerIndex])
53
              if computerPoint == 0:
54
                  computerBust = True
55
              else:
56
                  computerIndex += 1
57
          return winner(playerPoint, computerPoint)
58
       else:
59
          return 'Error input'
                 ICCUIT LITTO THE
 60
      def inputData() -> list:
 61
            playerCardsStr = input()
 62
 63
            computerCardsStr = input()
 64
            playerCards = playerCardsStr.split()
 65
            computerCards = computerCardsStr.split()
            return playerCards, computerCards
 66
 67
 68
      def testgame():
 69
            playerCards, computerCards = inputData()
            result = game(playerCards, computerCards)
 70
 71
            print(result)
 72
            name == ' main ':
 73
            testgame()
 74
```

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D:\文件\school\計算機程式設計\HW\unittest>python tester.py								
Ran 11 tests in 0.001s								
OK Name	Stmts	Miss Bı	ranch Br	Part	Cover			
poker.py	 59	9	22	1	88%			
TOTAL	59	9	22	1	88%			
D:\文件\school\計算機程式設計\HW\unittest>								