

```

public boolean isValidArrangement()
{
    for (int i = 0; i < numCards; i++)
    {
        int count = 0;

        for (int j = 0; j < numCards; j++)
            if (cards[i].equals(cards[j]))
                count++;

        if (count != 2)
            return false;
    }
    return true; // Note 1
}

```

Note 1: `return true` only outside of the outer `for` loop.

```

public void removeCard(int k)
{
    for (int j = k+1; j < numCards; j++)
        cards[j-1] = cards[j];

    numCards--;
}

```

```

public boolean openTwoCards(int k1, int k2)
{
    if (cards[k1].equals(cards[k2]))
    {
        removeCard(k2); // Note 2
        removeCard(k1);
        return true;
    }
    else
        return false;
}

```

Note 2: It is important to remove the cards in the correct order, because when a card is removed, the subsequent cards shift to the left.

Bus Solution

```
public Bus(String start, String end, int mins)
{
    startTime = toMinutes(start); // Note 1
    endTime = toMinutes(end);
    runInterval = mins;
}
```

Note 1: It is OK to call public or private instance methods of a class from its constructors.

```
public int waitTime(String time)
{
    int now = toMinutes(time);
    int nextBus = startTime;
    while (nextBus < now) // Note 2
        nextBus += runInterval;
    if (nextBus > endTime)
        return -1;
    return nextBus - now;
}
```

Note 2: Of course it is possible to calculate the expected next bus arrival time using arithmetic, but it is much easier to use a loop.