

```

public static void bulgarianSolitaire(int numCards) {
// Check if given number of cards is triangular
    int n = (int) Math.sqrt(2 * numCards);
    ArrayList<Integer> End = new ArrayList<Integer>();
    if (n * (n + 1) / 2 != numCards) {
        System.out.println(numCards + " is not triangular");
    }
    int sum = 0;
    for (int i = 0; sum < numCards; i++) {
        End.add(i + 1);
        sum = sum + i + 1;
    }
    ArrayList<Integer> Bulgarian = new ArrayList<Integer>();
    Random randy = new Random();
    int first = numCards;
    int plus = 0;
    while (first > 0) {
        plus = randy.nextInt(first) + 1;
        Bulgarian.add(plus);
        first = first - plus;
    }
    System.out.println(Bulgarian);
    for (int a = 0; a == 0;) {
        for (int i = 0; i < Bulgarian.size(); i++) {
            Bulgarian.set(i, Bulgarian.get(i) - 1);
        }
        Bulgarian.add(Bulgarian.size());
        for (int i = 0; i < Bulgarian.size(); i++) {
            if (Bulgarian.get(i) == 0) {
                Bulgarian.remove(i);
                i--;
            }
        }
        System.out.println(Bulgarian);
        if (Bulgarian.equals(End)) {
            break;
        }
    }
}
}

```