```
import java.util.Scanner;

public class FirstFit {

    // Function to implement the First Fit algorithm
    public static void firstFit(int[] items, int binCapacity) {
        int binCount = 0; // Track the number of bins used
        int[] bins = new int[items.length]; // Array to store current weights of each bin

        System.out.println("Packing the items using First Fit Algorithm:");

        for (int i = 0; i < items.length; i++) {
            boolean placed = false;

            // Try to place the item in the first available bin
            for (int j = 0; j < binCount; j++) {
                if (bins[j] + items[i] <= binCapacity) {
                    bins[j] += items[i];
                    System.out.println("Item " + (i + 1) + " (Weight: " + items[i] + ") placed in Bin " + (j + 1));
                    placed = true;
                    break;
                }
            }

            // If item wasn't placed, open a new bin
            if (!placed) {
                bins[binCount] = items[i];
                binCount++;
                System.out.println("Item " + (i + 1) + " (Weight: " + items[i] + ") placed in Bin " + binCount);
```

```
        }
    }

    System.out.println("\nTotal number of bins used: " + binCount);
}

public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);

    // Get the number of items
    System.out.print("Enter the number of items: ");
    int n = scanner.nextInt();

    // Get the bin capacity
    System.out.print("Enter the bin capacity: ");
    int binCapacity = scanner.nextInt();

    // Get the weight of each item
    int[] items = new int[n];
    System.out.println("Enter the weights of the items:");
    for (int i = 0; i < n; i++) {
        items[i] = scanner.nextInt();
    }

    // Call the first fit function
    firstFit(items, binCapacity);

    scanner.close();
}
```

}

```
java -cp /tmp/r8derekDtL/FirstFit
Enter the number of items: 3
Enter the bin capacity: 3
Enter the weights of the items:
2
5
3
Packing the items using First Fit Algorithm:
Item 1 (Weight: 2) placed in Bin 1
Item 2 (Weight: 5) placed in Bin 2
Item 3 (Weight: 3) placed in Bin 3

Total number of bins used: 3

=== Code Execution Successful ===
```