

Solutions

Question 1

```
void printDifference(int A[], int B[], int n, int m) {

    int i = 0;
    int j = 0;

    while (i < n && j < m) {
        if (A[i] < B[j]) {
            cout << A[i++] << ", ";           // not necessary to print comma
        } else if (A[i] > B[j]) {
            cout << B[j++] << ", ";
        } else {
            i++;
            j++;
        }
    }

    while(i < n)
        cout << A[i++] << ", ";

    while(j < n)
        cout << B[j++] << ", ";
}
```

Question 2

```
template<class Type>
LinkedListType<Type> LinkedListType<Type>::split()
{
    LinkedListType<Type> other;

    if(count > 1) {
        NodeType<Type>* p = first;
        int length = (count + 1)/2;
        for (int i = 0; i < length - 1; i++)
            p = p->link;

        // Now cut at p
        other.first = p->link;
        other.last = last;
        other.count = count - length;

        last = p;
        count = length;
        p->link = NULL;
    }
    return other;
}
```