

```
public static int[] sort(int[] unsorted) {  
    for (int i = 1; i < unsorted.length; i++) {  
        for (int j = i; j > 0; j--) {  
            int jthElement = unsorted[j];  
            int jMinusOneElement = unsorted[j - 1];  
            if (jthElement < jMinusOneElement) {  
                unsorted[j - 1] = jthElement;  
                unsorted[j] = jMinusOneElement;  
            } else {  
                break;  
            }  
        }  
    }  
    return unsorted;  
}
```

The diagram illustrates the control flow of the provided Java code. It features several nodes (circles) and connecting lines (edges). The nodes are color-coded: purple for the entry point and the start of the outer loop, orange for the start and end of the inner loop, and red for the comparison and swap logic. The lines show the sequence of execution, including the loop structure and the conditional break statement.