1.

a. Sorts the array in ascending order [1, 2, 3, 4, 5, 6, 7, 8, 9]

b. n(5 + (n + 1 + ((n/2) *3) + n+1) == n(5n+6) == 5n^2 + n === O(n^2)

2 int i, temp;

1 if(j < m) {

(1;n;n+1) for(i = j; i <=m; i ++){

  1 if(a[i] < a[j]) {

    3

}

1 j++;

n one(a, j, m);

2.

a. Tester.java

b. Algorithm is O(log n) because it divides the search space in half each time