1. Below is a recursive method which will reverse an array of items. Fill in the two blank lines according to the comments given.

```
ReverseArray( A )
{
    ReverseArrayRecursive( A, 0, A.length - 1 );
}

ReverseArrayRecursive( A, low, high )
{
    //fill in the check for the base case

    -------------------------------

    Swap( A[low], A[high] );

    //write the recursive call below

    -------------------------------
}
```

2. Give the running time (in Big-Oh notation) of the methods below. Simplify your answer as much as possible.

(a) boolean containsDuplicate( int[] A )
{
    for ( int i = 0; i < A.length; i++ )
        for ( int j = 0; j < i; j++ )
                return true;
    return false;
}
(b) boolean containsNegativeOrDuplicate( int[] A )
{
    for ( int i = 0; i < A.length; i++ )
        if ( A[i] < 0 )
            return true;

    for ( int i = 0; i < A.length; i++ )
        for ( int j = 0; j < i; j++ )
                return true;

    return false;
}