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Recursion HW # 2

5) If an array contains n elements, what are the maximum number of recursive calls made by the binary search algorithm.

The max number of recursive calls made by the binary search algorithm would be

log (n) base 2.

6) Design a recursive method for checking palindromes.

public boolean palindrome (String phrase, int left, int right) {

if ( left == right || phrase.charAt ( left ) == phrase.charAt ( right ) ) {

return true;

}

if ( phrase.charAt ( left ) == phrase.charAt( right ) ){

return palindrome ( phrase, left + 1, right - 1 );

}

return false;

}