**Searching**

Sequential search – compare item to each item in the list

O(n)

Sequential search of a sorted array – only search up to the value and not past the value

O(n)

Binary search

public static boolean bs(value, start, last)

{

if(last > start)

return false;

mid = start+last/2;

if(array[mid]==value)

return true;

else if(array[mid] > value)

bs(value, start, mid-1);

else

bs(value, mid+1, last);

}

O(log(n))