CS 61B: Code for Lecture 9

```
class IntBox {
   static void doNothing(int x) {
     x = 2i
   public int i;
   static void set3(IntBox ib) {
     ib.i = 3;
   static void badSet4(IntBox ib) {
     ib = new IntBox();
     ib.i = 4;
Examples of method calls:
[1] int a = 1;
    doNothing(a);
[2] IntBox b = new IntBox();
    set3(b);
[3] badSet4(b);
______
Binary search algorithm:
 public static final int FAILURE = -1;
 private static int bsearch(int[] i, int left, int right, int findMe) {
   if (left > right) {
     return FAILURE;
                                     // Base case 2: subarray of size zero.
   int mid = (left + right) / 2;
                                        // Halfway between left and right.
   if (findMe == i[mid]) {
     return mid;
                                                  // Base case 1: success!
   } else if (findMe < i[mid]) {</pre>
     return bsearch(i, left, mid - 1, findMe);
                                                      // Search left half.
   } else {
     return bsearch(i, mid + 1, right, findMe);
                                                      // Search right half.
 public static int bsearch(int[] i, int findMe) {
   bsearch(i, 0, i.length - 1, findMe);
```