

```

public class CopyMe {
    /* makes a copy of the contents
    * of A into a new array and returns
    * the location of the copy */
    public static int []copy(int A[]) {
        /* 1) make a new array that's the same
        * size as the array A points to */
        int []B = new int[A.length];

        /* 2) copy everything from the old
        * array to the new one */
        for (int i = 0; i < A.length; i++) {
            B[i] = A[i];
        }

        /* 3) copy the location of the new
        * array back to the caller */
        return B;
    }

    public static void main(String []args) {
        int []A = new int[3];
        A[0] = 10;
        A[1] = 20;
        A[2] = 30;

        int []theCopy = copy(A);
        System.out.println("A = " + arrToStr(A));
        System.out.println("B = " + arrToStr(theCopy));
    }

    /* returns a string representation of the
    * array */
    public static String arrToStr(int []A) {
        if (A.length == 0) {
            return "[]";
        }

        String s = "[" + A[0];

        for (int i = 1; i < A.length; i++) {
            s += ", " + A[i];
        }
        return s + "]";
    }
}

```

