Writing a program in Java implementing the binary search algorithm

package P5;

}

```
class BinarySearch {
int binarySearch(int array[], int x, int low, int high) {
      // Repeat until the pointers low and high meet each other
      while (low <= high) {</pre>
            int mid = low + (high - low) / 2;
            if (array[mid] == x)
                  return mid;
            if (array[mid] < x)</pre>
                  low = mid + 1;
            else
                  high = mid - 1;
      return -1;
}
public static void main(String args[]) {
      BinarySearch ob = new BinarySearch();
      int array[] = { 3, 4, 5, 6, 7, 8, 9 };
      int n = array.length;
      int x = 4;
      int result = ob.binarySearch(array, x, 0, n - 1);
      if (result == -1)
            System.out.println("Not found");
      else
            System.out.println("Element found at index " + result);
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