**package** Sorting\_Algorithms;

**public class** BinarySearchAlgorithm {

**public void** binarySearch(**int**[] inputArray, **int** lowerIndex, **int** higherIndex, **int** search\_data)

{

**int** middle = (lowerIndex + higherIndex)/2;

**if** (inputArray[middle] == search\_data)

{

System.***out***.print(**"Found data: "**+search\_data);

}

**else if**(inputArray[middle]>search\_data)

{

**if** (middle -1<0)

{

System.***out***.println(**"Not Found: "**);

}**else** {

binarySearch(inputArray, lowerIndex, middle - 1, search\_data);

}

}**else if**(inputArray[middle]<search\_data)

{

**if** (middle +1 >higherIndex)

{

System.***out***.println(**"Not Found: "**);

}**else** {

binarySearch(inputArray, middle + 1, higherIndex, search\_data);

}

}

}

**public static void** main(String[] args) {

**int**[] inputArray = {1,2,3,4,5};

**int** search = 4;

BinarySearchAlgorithm object = **new** BinarySearchAlgorithm();

object.binarySearch(inputArray,0,inputArray.**length**-1,search);

}

}