linear search assignment

code

class Tester {

public static int searchEmployeeId(int[] employeeIds, int employeeIdToBeSearched) {

for (int i = 0; i < employeeIds.length; i++) {

if (employeeIds[i] == employeeIdToBeSearched) {

return i + 1; // Return number of iterations (1-based index)

}

}

return -1; // Employee Id not found

}

public static void main(String a[]) {

int[] employeeIds = { 8011, 8012, 8015, 8016, 8020, 8022, 8025 };

int employeeIdToBeSearched = 8022;

int numberOfIterations = searchEmployeeId(employeeIds, employeeIdToBeSearched);

if (numberOfIterations == -1)

System.out.println("Employee Id " + employeeIdToBeSearched + " is not found!");

else

System.out.println("Employee Id " + employeeIdToBeSearched + " is found! Number of iterations : " + numberOfIterations);

}

}

