**package** searchingalgorithms;

**public** **class** LinearSearchMain {

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

**int** arr[] = {10,20,30,23, 40,50, 77};

**int** key=10;

**int** indexOfKey = *linearSearch*(arr, key);

**if**(indexOfKey != -1)

System.***out***.println(key + " was found in index position "+ indexOfKey);

**else**

System.***out***.println(key + " was not found");

}

**private** **static** **int** linearSearch(**int**[] arr, **int** key) {

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

**if**(arr[i] == key)

**return** i;

}

**return** -1;

}

}

