list1 <- ['p', 'w', 'q', 'r', 'w', 'a', 'y', 'g', 'z', 'v'] 1

list2 <- ['e', 'w', 'u', 't', 'x', 'o', 'u', 'a', 'p', 'a'] 1

INTERCEPT\_SEARCH(l1, l2)

list3 = new String array [] 1

For i <- 0 to l1.length n

For j <- 0 to l2.length n\*n

If l1[i] = l2[j] n\*n

Append l1[i] to list3 n\*n

return list3 1

**Runtime analysis:** f(n) = 3n2­­ + n + 4

**Complexity:** O(n2)