

Intersection of two sorted lists implementing sets:

l'sendo code:

Iterate through the lists L, and L2 using iterators I, and I2, respectively

While there are elements left to process Let X1, X2 be the current elements of I, and Iz, vespectively

If X, < X2 then

Advance II

else if x, > x2 then

Advance -2

else Add x, to output List

Advance II. Advance Iz

Return Helper function: return

next (it) { (it.has Next)?

it.next(): null; }

Code (Symmetric Solution) - Some type details it, = l1. iterator(); itz = l2. iterator();  $X_1 = \text{next}(it_1); X_2 = \text{next}(it_2);$ While (x1 != null ll x2 != null) { Cmp = X, compareTo (X2); if (cmp < 0)'  $X_i = next(it_i)$ else if (cmp>0) X2 = next (itz). else {outList.add(xi); x, = next(it); x2=next(it); Solution using For each loop for one list: it, = l, iterator(); X,= next(it,).

for (x2: l2) } while (X, != null dd X, compareTo (X2) <0) X, = next (it,); if (x, == null) return; if  $(X_1, compare To (X_2) = = 0)$  {

out List.add(X\_1);  $X_1 = next(zt_1);$