Set Difference (operator- overload for set)

template <typename T>

set<T> operator- (const set<T>& lhs, const set<T>& rhs){

set<T> setDifference;

set<T>::const\_iterator lhsIter=lhs.begin();

set<T>::const\_iterator rhsIter=rhs.begin();

//Grab all elements from the left set that are not in the

//right set

while(lhsIter!=lhs.end()&&rhsIter!=rhs.end()){

if (\*lhsIter<\*rhsIter)

setDifference.insert(\*lhsIter++)

else if (\*rhsIter<\*lhsIter)

rhsIter++;

else{

rhsIter++;

lhsIter++;

}

}

//get the rest of the elements from the left set if valid

if(lhsIter!=lhs.end()){

while(lhsIter!=lhs.end())

setDifference.insert(lhsIter++);

}

return setDifference;

}