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Homework 4

**Exercise 15.2.1 b)**

Open()

{

R.Open();

}

GetNext()

{

while(true)

{

if(R.GetNext() == NotFound)

{

return NotFound;

}

t := R.GetNext();

if(searchStruct.find(t))

//get next tuple

else

{

//insert t into search

searchStruct.Insert(t);

return t;

}

}

}

Close()

{

R.Close();

}

**16.3.1**

a)

σ­­S.c>T.c (σ(R x S) x T)

Both commutative and associative

b)

σ(σ(T x U) x σ(R x S))

Commutative, but not associative