```
Output
                                                                            Microsoft Visual Studio Debug Console
Show output from: Debug
                                                                         ==
ID='42', Name='Ann', Major='CS'
'Project3.exe' (Win32): Loaded 'C:\Windows\System32\vcruntime140_1d.dll'.
                                                                           ID='32', Name='Bob', Major='CS'
 'Project3.exe' (Win32): Loaded 'C:\Windows\System32\ucrtbased.dll'.
                                                                           ID='64', Name='Ned', Major='EE'
The thread 0x3f64 has exited with code 0 (0x0).
                                                                           ID='16', Name='Jim', Major='EE'
 'Project3.exe' (Win32): Loaded 'C:\Windows\System32\kernel.appcore.dll'.
 'Project3.exe' (Win32): Loaded 'C:\Windows\System32\msvcrt.dll'.
                                                                           C:\Cs 236\Project3\x64\Debug\Project3.exe (process 13828) exited with code 0.
 'Project3.exe' (Win32): Loaded 'C:\Windows\System32\rpcrt4.dll'.
                                                                           To automatically close the console when debugging stops, enable Tools->Options->Debugg
The thread 0x3358 has exited with code 0 (0x0).
                                                                           le when debugging stops.
The thread 0x5e4c has exited with code 0 (0x0).
                                                                           Press any key to close this window . . .
The program '[13828] Project3.exe' has exited with code 0 (0x0).
                                                                                                                                             Activate Windows
```

```
Microsoft Visual Studio Debug Console
Output
                                                                                                                                                                                               ID='42', Name='Ann', Major='CS'
Show output from: Debug
                                                                                                                                                                                             "ID='32', Name='Bob', Major='CS'
                                                                                                                                                                                               ID='64', Name='Ned', Major='EE'
   'Project3.exe' (Win32): Loaded 'C:\Windows\System32\msvcp140d.dll'.
                                                                                                                                                                                               ID='16', Name='Jim', Major='EE'
   'Project3.exe' (Win32): Loaded 'C:\Windows\System32\vcruntime140d.dll'.
                                                                                                                                                                                               relation:
   'Project3.exe' (Win32): Loaded 'C:\Windows\System32\vcruntime140_1d.dll'.
   'Project3.exe' (Win32): Loaded 'C:\Windows\System32\ucrtbased.dll'.
                                                                                                                                                                                               ID='16', Name='Jim', Major='EE'
   The thread 0x5180 has exited with code 0 (0x0).
                                                                                                                                                                                               ID='32', Name='Bob', Major='CS'
   'Project3.exe' (Win32): Loaded 'C:\Windows\System32\kernel.appcore.dll'.
                                                                                                                                                                                               ID='42', Name='Ann', Major='CS'
   'Project3.exe' (Win32): Loaded 'C:\Windows\System32\msvcrt.dll'.
                                                                                                                                                                                               ID='64', Name='Ned', Major='EE'
   'Project3.exe' (Win32): Loaded 'C:\Windows\System32\rpcrt4.dll'.
  The thread 0x5920 has exited with code 0 (0x0).
                                                                                                                                                                                               C:\Cs 236\Project3\x64\Debug\Project3.exe (process 2252) exited with code 0.
  The thread 0x635c has exited with code 0 (0x0).
                                                                                                                                                                                               To automatically close the console when debugging stops, enable Tooks of the console when debugging stops of the console when debugging stops of the console when the consol
  The program '[2252] Project3.exe' has exited with code 0 (0x0).
                                                                                                                                                                                               le when debugging stops.
                                                                                                                                                                                                                                                                                                                                                                            Go to Settings to act
                                                                                                                                                                                               Press any key to close this window . . .
```

```
{"'64'", "'Ned'", "'EE'"},
                     {"'16'", "'Jim'", "'EE'"},
                   for (auto& std::vector<std::string> & value : values) {
                       Tuple tuple(value);
                       cout << tuple.toString(scheme) << endl;</pre>
                       relation.addTuple(tuple);
                                                                                 Microsoft Visual Studio Debug Console
                   cout << "relation:" << endl;
                                                                                ID='42', Name='Ann', Major='CS'
                   cout << relation.toString();
                                                                                ID='32', Name='Bob', Major='CS'
                                                                                ID='64', Name='Ned', Major='EE'
                                                                                ID='16', Name='Jim', Major='EE'
Output
                                                                                relation:
                                                                            ≝ ID='16', Name='Jim', Major='EE'
Show output from: Debug
                                                                               ID='32', Name='Bob', Major='CS'
ID='42', Name='Ann', Major='CS'
ID='64', Name='Ned', Major='EE'
 'Project3.exe' (Win32): Loaded 'C:\Windows\System32\msvcp140d.dll'.
 'Project3.exe' (Win32): Loaded 'C:\Windows\System32\vcruntime140d.dll'.
 'Project3.exe' (Win32): Loaded 'C:\Windows\System32\vcruntime140_1d.dll'.
 'Project3.exe' (Win32): Loaded 'C:\Windows\System32\ucrtbased.dll'.
                                                                                select Major='CS' result:
 The thread 0x56ec has exited with code 0 (0x0).
                                                                                ID='32', Name='Bob', Major='CS'
 'Project3.exe' (Win32): Loaded 'C:\Windows\System32\kernel.appcore.dll'.
                                                                                ID='42', Name='Ann', Major='CS'
 'Project3.exe' (Win32): Loaded 'C:\Windows\System32\msvcrt.dll'.
 'Project3.exe' (Win32): Loaded 'C:\Windows\System32\rpcrt4.dll'.
                                                                                C:\Cs 236\Project3\x64\Debug\Project3.exe (process 22232) exited with code 0.
 The thread 0x5cd4 has exited with code 0 (0x0).
                                                                                To automatically close the console when debugging stops, enable Tools->Options->Debugg
 The thread 0x40ec has exited with code 0 (0x0).
                                                                                le when debugging stops.
 The program '[22232] Project3.exe' has exited with code 0 (0x0).
                                                                                Press any key to close this window . . .
                                                                                                                                                  Go to Settings to activate Wind
```