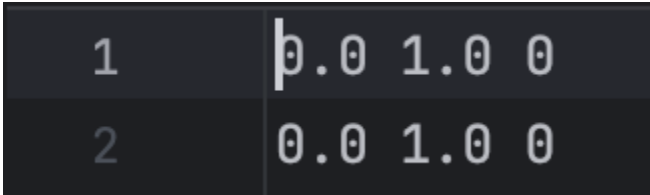
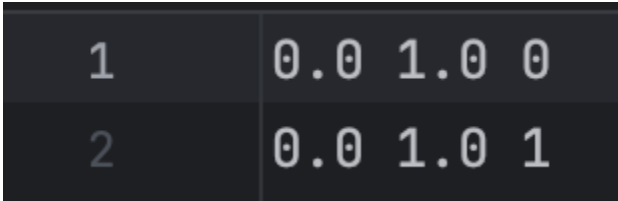
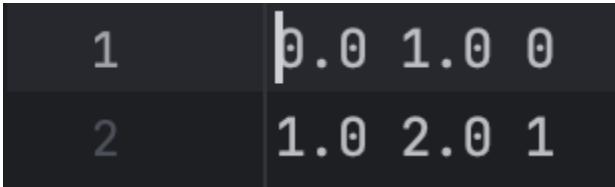
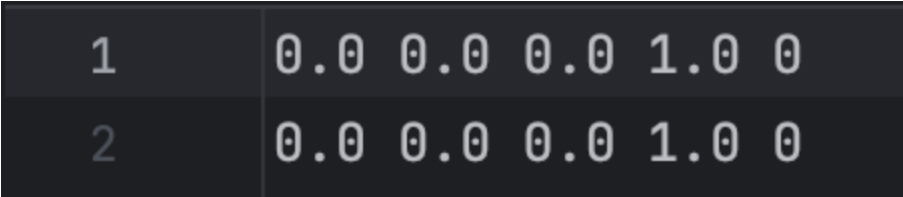
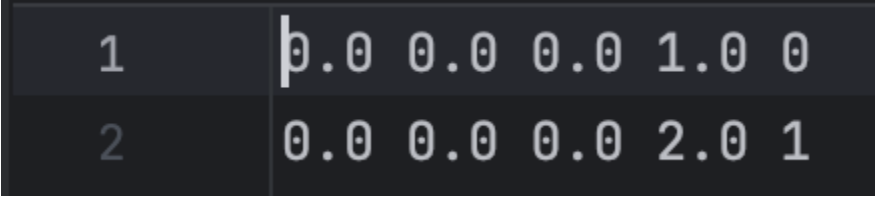
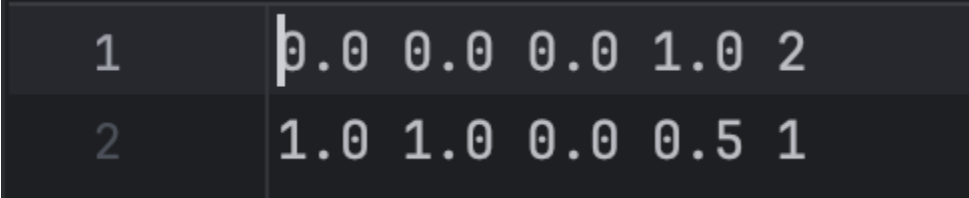


1.1 Input	 <pre> 1 1.0 1.0 0 2 0.0 1.0 0 </pre>
1.1 My Ans	<pre> "/Users/vittor/Documents/CLASSES/SPRING 2024/CHEM_179_HW2/cmake-build-debug/CHEM_179_HW2" 1d numerical overlap integral between Gaussian functions is 1.25331 Process finished with exit code 0 </pre>
1.1 Xiao	<pre> 1 1d numerical overlap integral between Gaussian functions is 1.25331413731550456e+00 </pre>
1.2 Input	 <pre> 1 0.0 1.0 0 2 0.0 1.0 1 </pre>
1.2 My Ans	<pre> "/Users/vittor/Documents/CLASSES/SPRING 2024/CHEM_179_HW2/cmake-build-debug/CHEM_179_HW2" 1d numerical overlap integral between Gaussian functions is 2.21768e-17 Process finished with exit code 0 </pre>
1.2 Xiao	<pre> 1 1d numerical overlap integral between Gaussian functions is 0.0000000000000000e+00 </pre>
1.3 Input	 <pre> 1 1.0 1.0 0 2 1.0 2.0 1 </pre>
1.3 My Ans	<pre> "/Users/vittor/Documents/CLASSES/SPRING 2024/CHEM_179_HW2/cmake-build-debug/CHEM_179_HW2" 1d numerical overlap integral between Gaussian functions is -0.175131 Process finished with exit code 0 </pre>
1.3 Xiao	<pre> 1 1d numerical overlap integral between Gaussian functions is -1.75131150074330832e-01 </pre>

2.1 Input	
2.1 My Ans	<pre>"/Users/vittor/Documents/CLASSES/SPRING 2024/CHEM_179_HW2/cmake-build-debug/CHEM_179_HW2" Shell 1 has 1 functions. This shell info: R(0, 0, 0), with angular momentum: 0, coefficient: 1 Shell 2 has 1 functions. This shell info: R(0, 0, 0), with angular momentum: 0, coefficient: 1 Overlap integral between Shell 1 and Shell 2 1.9687 The components of angular momentum (l, m, n) for the matrix column, from top to bottom, are listed sequentially as: (0, 0, 0). The components of angular momentum (l, m, n) for the matrix row, from left to right, are listed sequentially as: (0, 0, 0). Process finished with exit code 0</pre>
2.1 Xiao	<pre>1 Shell 1 has 1 functions. 2 This shell info: R(0.00, 0.00, 0.00), with angular momentum: 0, coefficient: 1.00 3 Shell 2 has 1 functions. 4 This shell info: R(0.00, 0.00, 0.00), with angular momentum: 0, coefficient: 1.00 5 Overlap integral between Shell 1 and Shell 2 6 1.9687 7 The components of angular momentum (l, m, n) for the matrix column, from top to bottom, are listed sequentially as: (0, 0, 0). 8 The components of angular momentum (l, m, n) for the matrix row, from left to right, are listed sequentially as: (0, 0, 0).</pre>
2.2 Input	
2.2 My Ans	<pre>"/Users/vittor/Documents/CLASSES/SPRING 2024/CHEM_179_HW2/cmake-build-debug/CHEM_179_HW2" Shell 1 has 1 functions. This shell info: R(0, 0, 0), with angular momentum: 0, coefficient: 1 Shell 2 has 3 functions. This shell info: R(0, 0, 0), with angular momentum: 1, coefficient: 2 Overlap integral between Shell 1 and Shell 2 0 0 0 The components of angular momentum (l, m, n) for the matrix column, from top to bottom, are listed sequentially as: (0, 0, 0). The components of angular momentum (l, m, n) for the matrix row, from left to right, are listed sequentially as: (1, 0, 0), (0, 1, 0), (0, 0, 1). Process finished with exit code 0</pre>
2.2 Xiao	<pre>1 Shell 1 has 1 functions. 2 This shell info: R(0.00, 0.00, 0.00), with angular momentum: 0, coefficient: 1.00 3 Shell 2 has 3 functions. 4 This shell info: R(0.00, 0.00, 0.00), with angular momentum: 1, coefficient: 2.00 5 Overlap integral between Shell 1 and Shell 2 6 0 0 0 7 The components of angular momentum (l, m, n) for the matrix column, from top to bottom, are listed sequentially as: (0, 0, 0). 8 The components of angular momentum (l, m, n) for the matrix row, from left to right, are listed sequentially as: (1, 0, 0), (0, 1, 0), (0, 0, 1).</pre>
2.3 Input	

2.3 My Ans	<pre>"/Users/vittor/Documents/CLASSES/SPRING 2024/CHEM_179_HW2/cmake-build-debug/CHEM_179_HW2" Shell 1 has 6 functions. This shell info: R(0, 0, 0), with angular momentum: 2, coefficient: 1 Shell 2 has 3 functions. This shell info: R(1, 1, 0), with angular momentum: 1, coefficient: 0.5 Overlap integral between Shell 1 and Shell 2 -0.1153 -0.4611 0 0.0576 0.0576 0 0 0 0.1729 -0.4611 -0.1153 0 0 0 0.1729 -0.3458 -0.3458 0 The components of angular momentum (l, m, n) for the matrix column, from top to bottom, are listed sequentially as: (2, 0, 0), (1, 1, 0), (1, 0, 1), (0, 2, 0), (0, 1, 1), (0, 0, 2). The components of angular momentum (l, m, n) for the matrix row, from left to right, are listed sequentially as: (1, 0, 0), (0, 1, 0), (0, 0, 1). Process finished with exit code 0</pre>
2.3 Xiao	<pre>Shell 1 has 6 functions. This shell info: R(0.00, 0.00, 0.00), with angular momentum: 2, coefficient: 1.00 Shell 2 has 3 functions. This shell info: R(1.00, 1.00, 0.00), with angular momentum: 1, coefficient: 0.50 Overlap integral between Shell 1 and Shell 2 -0.1153 -0.4611 0 0.0576 0.0576 0 0 0 0.1729 -0.4611 -0.1153 0 0 0 0.1729 -0.3458 -0.3458 0 The components of angular momentum (l, m, n) for the matrix column, from top to bottom, are listed sequentially as: (2, 0, 0), (1, 1, 0), (1, 0, 1), (0, 2, 0), (0, 1, 1), (0, 0, 2). The components of angular momentum (l, m, n) for the matrix row, from left to right, are listed sequentially as: (1, 0, 0), (0, 1, 0), (0, 0, 1).</pre>