# Akuna Capital - Middle Office Developer Coding Challenge

The purpose of this exercise is to create a trade reconciliation script that parses each file and then compares the two set of trades based on contract, side, price and quantity. The output should be a list of the differing trades (those that do not have an exact match in the two files) and the matching trades in an easy-to-read format.

Please use Python 3.2.

Deliverables are:

* Python source code
* document explaining any assumptions

There are 2 input files:

* trades1.txt – a list of trades with fields delimited by semi-colon (“;”)
* trades2.csv – a list of trades with fields delimited by comma (“,”)

The mappings between the files are given on the next page.

|  |  |
| --- | --- |
| File 1 Symbol | File 2 Symbol |
| JF | 35 |
| QAL | F- |
| RT | 1W |

|  |  |
| --- | --- |
| File 1 Side | File 2 Side |
| B | 1 |
| S | 2 |

For trades1.txt, the expiration month of the contract can be determined by the 1 character month code before the strike.

|  |  |  |
| --- | --- | --- |
| Month | Option Type | Code |
| 1 | C | A |
| 2 | C | B |
| 3 | C | C |
| 4 | C | D |
| 5 | C | E |
| 6 | C | F |
| 7 | C | G |
| 8 | C | H |
| 9 | C | I |
| 10 | C | J |
| 11 | C | K |
| 12 | C | L |
| 1 | P | M |
| 2 | P | N |
| 3 | P | O |
| 4 | P | P |
| 5 | P | Q |
| 6 | P | R |
| 7 | P | S |
| 8 | P | T |
| 9 | P | U |
| 10 | P | V |
| 11 | P | W |
| 12 | P | X |