

TASK 5 - Cast Values to q Types

TASK 4 - Parsing Messages (Part 2)

TASK 6 - Define Trade and Quote Helper Parsers

NECESSARY KNOWLEDGE

- Casting
- Dictionaries

I. AIM

The aim of this task is to write a function which returns the message information as a dictionary with **FID**-value pairs, where the values are of the correct type.

II. INSTRUCTIONS

Open the fh.q file in your text editor and locate the line:

```
map_types: {[types;m]}
```

Carefully read the comment contained within the function and then extend the function so that it takes two dictionaries, the first is TRADE_FIDS (types), the second is dictionary of the same format as returned by the *p* function in TASK 4 (m). The function should return a dictionary with the **FID**-value pairs, with the values having the correct type.

III. TESTING

To test your function launch q with the following command:

```
q fh.q
```

Create the following dictionaries:

```
t:1 2 3!({ "I"$x}; {"F"$x}; {"S"$x})
d:1 2 3!("123"; "321"; "asd")
```

To test call the function as follows:

```
map_types[t;d]
```

The function should return:

```
1| 123
2| 321f
3| `asd
```

For a second test enter the following data:

```
map_types[TRADE_FIDS]1 3 2!("BARC.L";"289.2674";"1274743")
```

The function should return:

```
1 | `BARC.L  
3 | 289.2674  
2 | 1274743
```