

# TASK 15 - Initial Subscription Communication

TASK 14 - Handling a Closed Connection

TASK 16 - End Of Day

## NECESSARY KNOWLEDGE

- -11!

## I. AIM

The aim of this task is to extend the **TP** such that it sets the tables in the **RT**, can publish to the **RT**, pass the log name and sequence number and trigger the log replay.

## II. INSTRUCTIONS

You will need to edit `tp.q` for this task, locate the lines:

```
tp_sub: {[ ]  
  
pub: {[t]  
  
pubh: {[t;d]
```

You will also need to edit `rt.q`, locate the lines:

```
replay: {[l;seq]  
  
upd: {[t;d]
```

Extend the functions so they set up the quote and trade tables in **RT**, ensure **TP** can publish to the **RT**, then pass the log name and sequence number and replay the log.

## III. TESTING

To test your code in one session start the tickerplant process:

```
q tp.q -p 5000 -tp_path /tmp
```

In a second session start the feedhandler:

```
q fh.q -p 4000 -tp localhost:5000
```

In a third session start the simulator:

```
q simu.q -fh localhost:4000 -data data/msgs
```

Then start a realtime database session with the following command:

```
q rt.q -p 5001 -tp localhost:5000 -hdb /tmp/taq
```

Ensure the tables are empty by typing:

```
count trade  
count quote
```

In the simulator session type:

```
do[100;pub[ ]]
```

Once again check the size of the tables as above, and ensure they are no longer empty.

Finally close the **RT** and restart it as above, without closing the **TP** session. Count the tables one more time and check they are the same size as previously.