

Simple Messaging Toolkit, solutions

Exercise 1a

```
call Customer orderChannel
call Barista orderChannel orderCompletedChannel
call Logger orderCompletedChannel
```

Exercise 1b

```
call Customer orderChannel
call Barista orderChannel orderCompletedChannel
call Barista orderChannel orderCompletedChannel
call Logger orderCompletedChannel
```

Exercise 2

```
call Customer orderChannelTemp
call ManualStep orderChannelTemp OrderChannel "/Order/Item"
call Barista orderChannel orderCompletedChannel
call SecondBarista orderChannel orderCompletedChannel
call Logger orderCompletedChannel
```

Correct order

```
call Customer orderChannel
call SequenceTagger orderChannel orderTaggedChannel "/Order/@OrderID"
call Barista orderTaggedChannel orderCompletedChannel
call SecondBarista orderTaggedChannel orderCompletedChannel
call Tee orderCompletedChannel orderCompletedChannel2 logChannel
call Logger logChannel
call Resequencer orderCompletedChannel2 orderSequenceChannel "/Order/@OrderID"
call Logger orderSequenceChannel
```

Correct order with a manual step

```
call Customer orderChannel
call SequenceTagger orderChannel orderTaggedChannel "/Order/@OrderID"
call Barista orderTaggedChannel orderCompletedChannel
call SecondBarista orderTaggedChannel orderCompletedChannel
call Tee orderCompletedChannel orderCompletedChannel2 logChannel
call Logger logChannel
call ManualStep orderCompletedChannel2 orderCompletedChannel3 "/Order/@OrderID"
call Resequencer orderCompletedChannel3 orderSequenceChannel "/Order/@OrderID"
call Logger orderSequenceChannel
```

Exercise 3

```
call Customer orderChannel
call SequenceTagger orderChannel orderTaggedChannel "/Order/@OrderID"
call Enricher orderTaggedChannel orderEnrichedChannel

call Tee orderEnrichedChannel orderEnrichedChannel2 logEnrichedChannel
call Logger logEnrichedChannel

call Splitter orderEnrichedChannel2 orderItemChannel "/Order/Item"

call Tee orderItemChannel orderItemChannel2 logItemChannel
call Logger logItemChannel

call Router orderItemChannel2 orderItemColdChannel
      "Item = 'FRAPPUCINO'" orderItemHotChannel

call ColdBevBarista orderItemColdChannel orderItemCompletedChannel
call HotBevBarista orderItemHotChannel orderItemCompletedChannel

call Aggregator orderItemCompletedChannel orderCompletedChannel "/Item/@OrderID"

call Logger orderCompletedChannel
```

With manual step

```
call Customer orderChannelTemp
call ManualStep orderChannelTemp orderChannel

call SequenceTagger orderChannel orderTaggedChannel "/Order/@OrderID"
call Enricher orderTaggedChannel orderEnrichedChannel

call Splitter orderEnrichedChannel orderItemChannel "/Order/Item"
call Router orderItemChannel orderItemColdChannel
      "Item = 'FRAPPUCINO'" orderItemHotChannel

call ColdBevBarista orderItemColdChannel orderItemCompletedChannel
call HotBevBarista orderItemHotChannel orderItemCompletedChannel

call Aggregator orderItemCompletedChannel orderCompletedChannel
      "/Order/@OrderID"

call Logger orderCompletedChannel
```