Design and implement a program in which N (where N >= 3) senders sends messages at arbitrary rate to a receiver and receiver processes messages received from the senders. A message consist of sender’s id and an arbitrary data of not more than 10 bytes. Initially, each sender was given a unique id (type int), so when a sender sending its message it prepends its id to data. When the receiver receives messages from senders, the receiver should process message from sender with lower id before processing message from sender with higher id. For this challenge, the processing method can print message.

Example: three senders:

                                sender\_1 was assigned its id as 1

                                sender\_2 was assigned its id as 2

                                sender\_3 was assigned its id as 3

sender\_2 sends following message:

       2absd

sender\_1 sends following message:

       1tuyuw6

sender\_3 sends following message:

       3qwet

When receiver receives above three messages it  should print messages as follows:

1tuyuw6, 2absd, 3qwet

Discuss possible solutions and implement only one solution in C++. Assume runtime OS is Linux. Please provide instructions for compilation and running your program.

Due in a week.

If you have any questions please feel free to contact me.