



# Esercitazione Messaggi MCAD 2021/2022

## In coda dal fornaio



```
process server{
  int MAX = 100
  int serving = 0, last = 0;
  int nrClients = 0
  port signal takeNumber, nextClient, ok_number, call_client;
  port Order makeOrder;
  port Bread serveBread;
  boolean servingClient = false, orderingClient = false;
  signal s;
  Order order;
  Bread bread;
  process baker;
  do
    (nrClients < MAX) p = receive (s) from takeNumber; ->
    {
      nrClients ++;
      last = (last + 1) % MAX;
      p = receive (s) from ok_number;

    }
    (last != serving) p = receive (s) from nextClient; ->
    {
      serving = (serving + 1) % MAX;
      p = receive (s) from call_client;
      orderingClient = true;
    }
    (orderingClient == true) p = receive (order) from makeOrder; ->
    {
      send (order) to baker.takeOrder;
      orderingClient = false;
      servingClient = true;
    }
    (servingClient == true) baker = receive (bread) from serveBread; ->
    {
      send (bread) to client.receiveBread;
      servingClient = false;
      nrClients --;
    }
  od
}
```



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## In coda dal fornaio



Fornaio	Cliente
<pre>process baker{   signal s;   process p;   port signal nextClient;   port Order takeOrder;   Bread bread;   Order order;    loop forever     send (s) to server.nextClient;     p = receive (order) from takeOrder;     bread = &lt;take bread&gt;     send (bread) to server.serveBread; }</pre>	<pre>process client{   signal s;   process p;   int myNum; #probabilmente non serve   Order order;   Bread bread;   port int number;   port signal called;   port Bread receiveBread;    send (s) to server.takeNumber;   send (s) to server.ok_number;   send (s) to server.call_client;   order = &lt;effettua ordine&gt;   send (order) to server.makeOrder;   p=receive (bread) from receiveBread;   &lt;esci dal negozio&gt; }</pre>