

key1
document1 (may consist of multiple lines, 1024 characters max)
END_DOC
key2
document2 (may consist of multiple lines, 1024 characters max)
END_DOC
.
.
.
Final key
Final document (may consist of multiple lines, 1024 characters max)
END_DOC

Table 2: Document file format.

```

n.find_successor(id)
  if (key ∈ [n, n.successor))
    return n.successor;
  else
    n' = closest_preceding_node(id);
    return n'.find_successor(id);

```

4.2 Closest_preceding_node

The pseudocode for closest_preceding_node is:

```

n.closest_preceding_node(id)
  for i = m downto 1
    if (finger[i] ∈ (n, id))
      return finger[i];
  return n.successor; *****

```

5 Messages, message formats and protocol

When your node is executed and has configured itself, it should listen for TCP connections on the port specified in its configfile. Each message in the protocol is transmitted by connecting to the well-known socket for the node, writing the message and closing the TCP connection. There are two types of messages: node messages and control messages. Node messages are sent among nodes while executing the Chord algorithm. Control messages are sent from outside the network to cause a node to take some action.