



```

case (state)
  waiting:
    if(i == 1)
      next_state = rcv1;
    else
      next_state = waiting;
  rcv1:
    if(i == 1)
      next_state = rcv11;
    else
      next_state = waiting;
  rcv11:
    if(i == 1)
      next_state = rcv11;
    else
      next_state = rcv110;
  rcv110:
    if(i == 1)
      next_state = rcv1101;
    else
      next_state = waiting;
  rcv1101:
    if(i == 1)
      next_state = rcv11;
    else
      next_state = waiting;

```

```

if(state == rcv1101)
  o = 1;
else
  o = 0;

```