Global invariant *GRAPH*:

token has value V ⇒
(the last V channels in cycle **C** were empty ∧
the last V processes to receive the token were **blue**)

actions of **T[i]** upon receiving a regular message:

```
color[i] = red;
```

actions of **T[i]** upon receiving the token:

```
if (token == nc)
    announce termination and halt;
if (color[i] == red)
    { color[i] = blue; token = 0; }
else
    token++;
set j to index of channel for next edge in cycle C;
send ch[j](token);
```

Figure 9.18 Termination detection in a complete graph.

Copyright © 2000 by Addison Wesley Longman, Inc.