

# Parallel NDFS: share the red color (correct version)

```
procedure DFSblue(s,i)
  s.color[i] := cyan
  for all t  $\in$  post(s) do
    if t.color[i]=white and  $\neg$ t.red then DFSblue(t,i)
  if s  $\in$  Acc then DFSred(s,i)
  s.color[i] := blue
```

```
procedure DFSred(s,i)
  s.pink[i] := true
  for all t  $\in$  post(s) do
    if t.color[i]=cyan then ExitCycle
    if  $\neg$ t.pink[i] and  $\neg$ t.red then DFSred(t,i)
  pink[i] := false
  if s  $\in$  Acc then await  $\forall j : \neg$ s.pink[j]
  s.red := true
```

[ATVA 2011]