

Process Synchronization

Attempt 1 – Take turns

shared int turn = 0

1. Loop
 - 1.1 While turn \neq i do
 - no-op
 - 1.2 CS
 - 1.3 Set turn = j
 - 1.4 RS

Process Synchronization

Attempt 2 – You go first

shared bool flag[2] = {false, false}

1. Loop

1.1 Set flag[i] = true

While flag[j] do

no-op

1.2 CS

1.3 Set flag[i] = false

1.4 RS

Process Synchronization

Peterson's Solution

shared int turn = 0

shared bool flag[2] = {false, false}

1. Loop

1.1 Set flag[i] to true

Set turn to j

While flag[j] AND turn = j do

no-op

1.2 CS

1.3 Set flag[i] to false

1.4 RS