int arrive[1:n] = ([n] 0), continue[1:n] = ([n] 0);

process Worker[i = 1 to n] {
    while (true) {
        code to implement task i;
        arrive[i] = 1;
        (await (continue[i] == 1);
        continue[i] = 0;
    }
}

process Coordinator {
    while (true) {
        for [i = 1 to n] {
            (await (arrive[i] == 1);
            arrive[i] = 0;
        }
        for [i = 1 to n] continue[i] = 1;
    }
}

Figure 3.12  Barrier synchronization using a coordinator process.