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/* Example Dispatch Loop Algorithm */
Allocate global registers;
Initialize dispatch loop;
Initialize Ethernet devices;
Initialize ingress microblock;
Initialize IP microblock;
while (1) {
    Get next packet from input device(s);
    Invoke ingress microblock;
    if ( return code == 0 ) {
        Drop the packet;
    } else if ( return code == 1 ) {
        Send packet to ingress core component;
    } else { /* IP packet */
        Invoke IP microblock;
        if ( return code == 0 ) {
            Drop packet;
        } else if ( return code == 1 ) {
            Send packet to IP core component;
        } else {
            Send packet to egress microblock;
        }
    }
}
}

```

**Figure 22.5** A dispatch loop algorithm for the microblock group on microengine 1 in Figure 22.4. Return code zero indicates that the packet should be dropped.