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// Code for the second pass of a program that classifies Ethernet frames

// Symbolic constants used for classifications

#define FRAMETYPEA 1 // ARP frames
#define FRAMETYPEI 2 // IP frames
#define FRAMETYPEO 3 // Other frames (not the above)

SETUP REPLAYROOT(HandleFrame);

// Pass 2

HandleFrame:
    fSkip(96) // skip past dest & src addresses
    cl = CLASS // compute class from frame type
    fSkipToEnd()
    fTransmit(1:1, cl:21, 0:16, 0:5, 0:10, 0:24);

CLASS: 0x0806:16 fReturn(FRAMETYPEA);
CLASS: 0x0800:16 fReturn(FRAMETYPEI);
CLASS: BITS:16 fReturn(FRAMETYPEO);
```