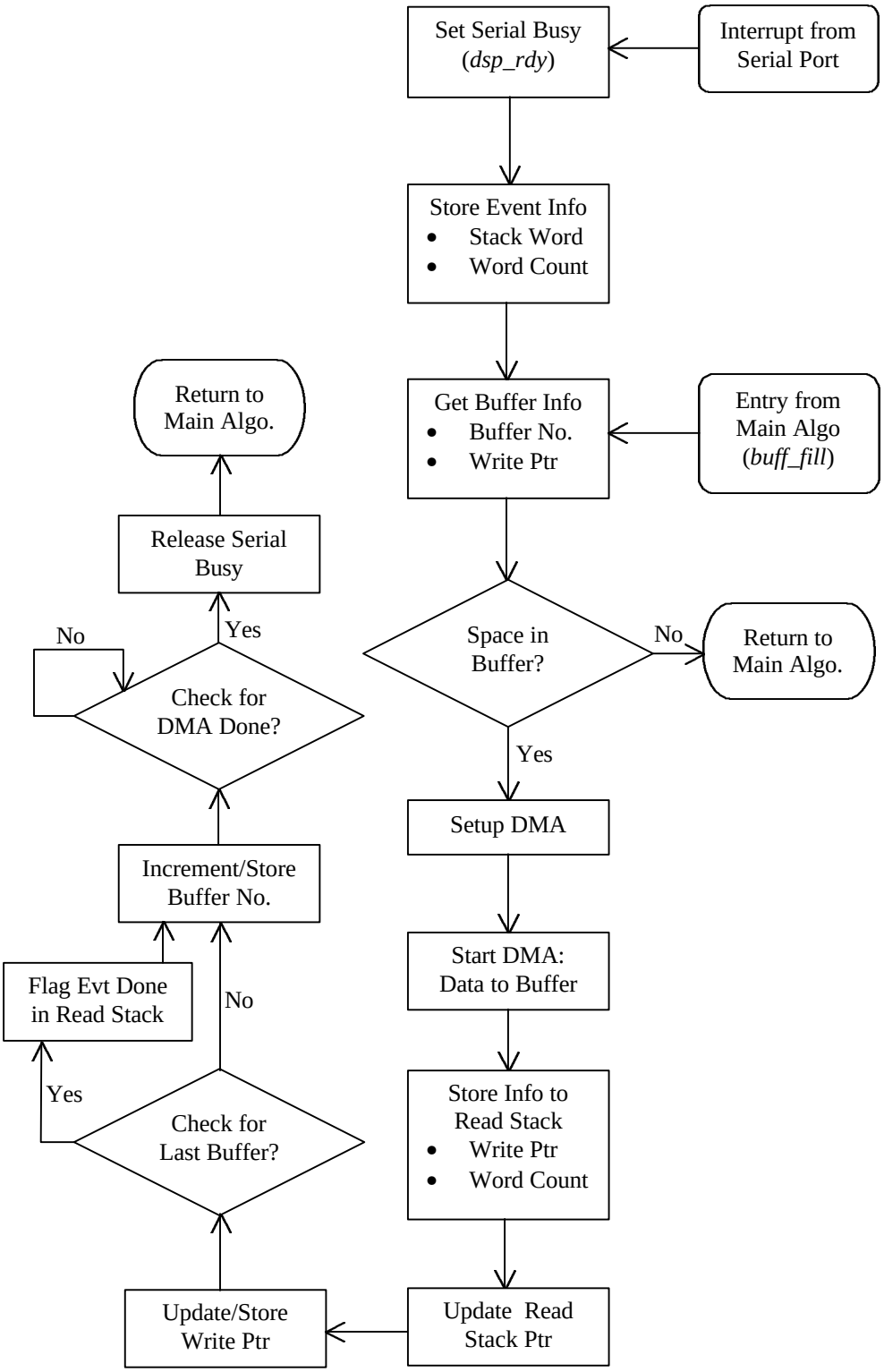DSP 1-4 WRITE BUFFER ALGORITHM