

```
uint64_t prog(struct packet *pkt){  
    // Check if Ethernet frame contains ipv4 packet  
    if (pkt->eth.h_proto == 0x0008) {  
        struct ip *ipv4 = (struct ip *)(((uint8_t *)&pkt->eth) + ETH_HLEN);  
        // Check if IP packet contains TCP segment  
        if (ipv4->ip_p == 6) {  
            struct tcphdr *tcp = (struct tcphdr *)(((uint32_t *)ipv4) +  
            ipv4->ip_hl);  
            // Access sequence number  
            return tcp->th_seq;  
        }  
    }  
    return 0;  
}
```