Looking through the packets, I noticed a weird pattern in SYN packets, so I applied tcp.flags.syn == 1 to view them. it looks like if we combine all destination ports and replace "1337" with b or d we get the flag in hex form. So, I used tshark and a few other utilities to get the flag. The final command is:

tshark -r flag.pcap -Y "tcp.flags.syn == 1 && tcp.flags.ack == 0" -T fields -e tcp.dstport | sed 's/1337/b/g' | tr -d '\n' | sed 's/.$/d/' | xxd -r –p

Made with love by: AndreiCat