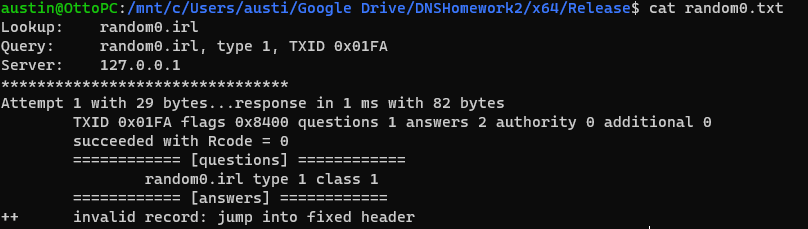
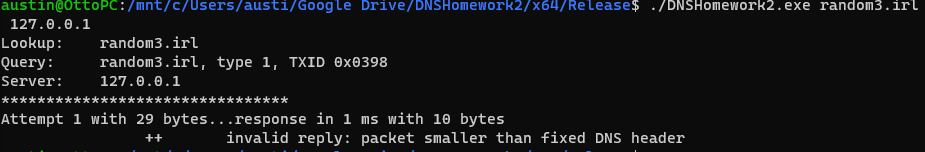
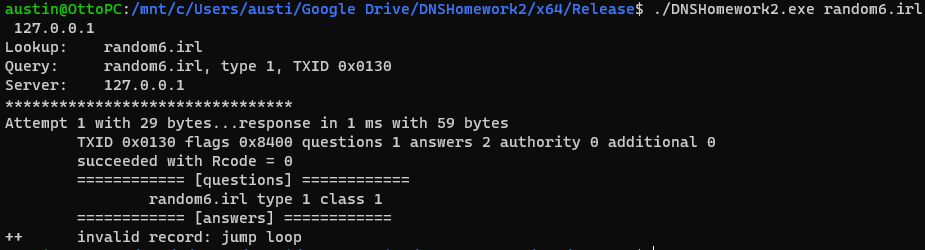
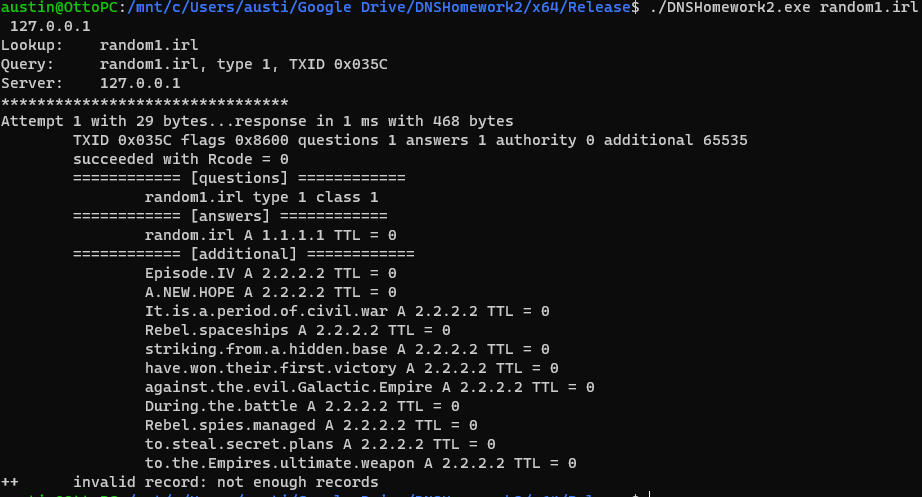
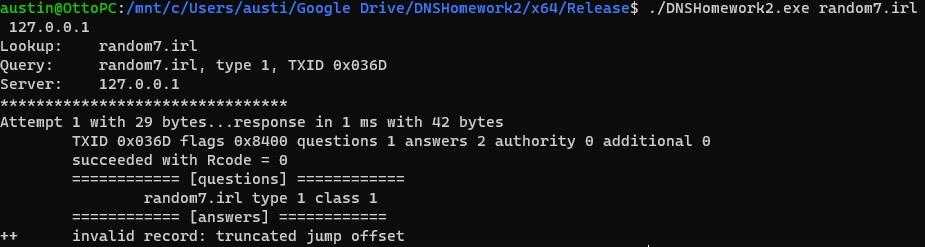
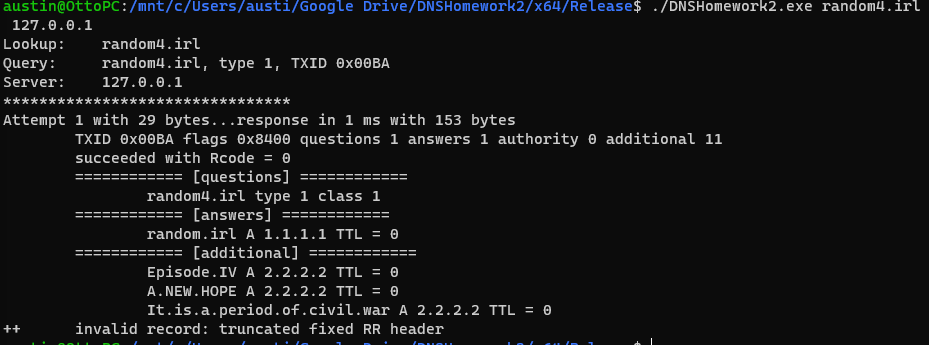
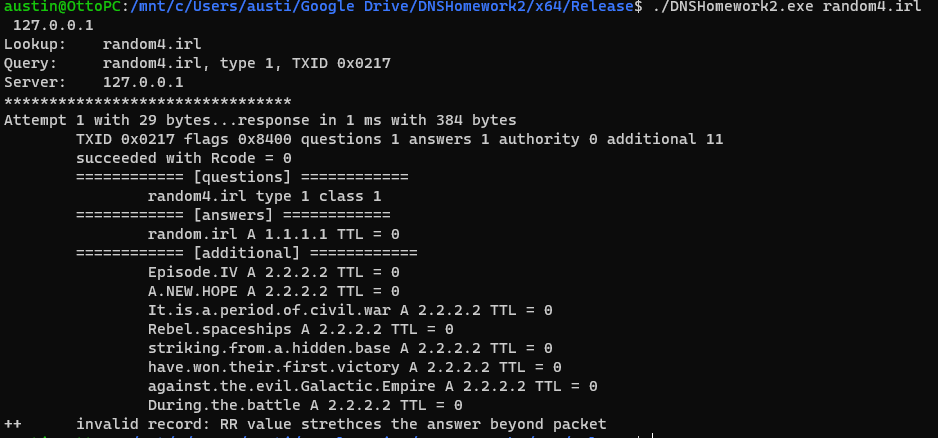
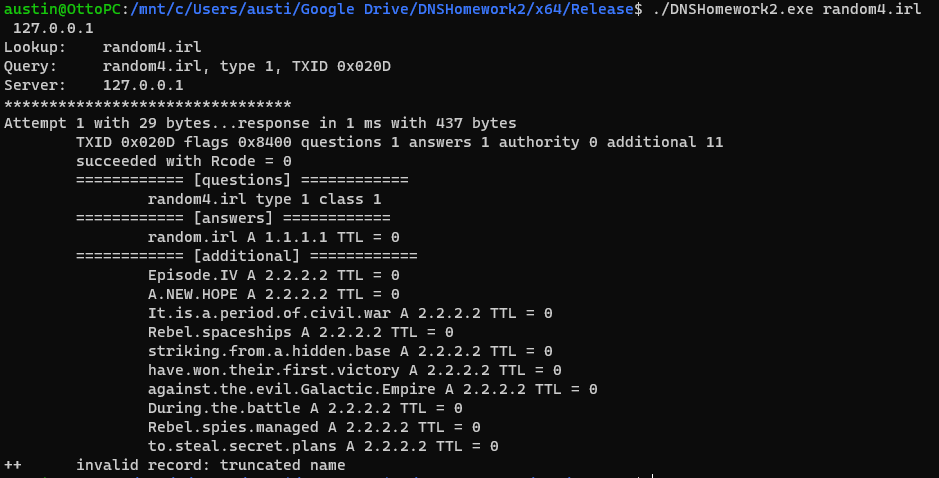
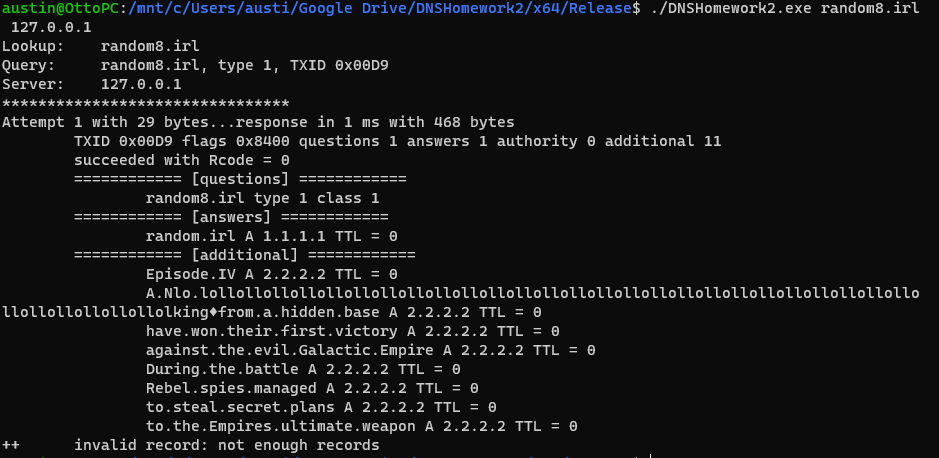
CSCE463: Networks and Distributed Processing

DNS Homework 2 Report

* Random0.irl
  + 
  + As you can see above, random 0 modifies the response packet by making the jump offset such that the tracking pointer jumps into a fixed header, which is checked by seeing if the offset is between 0 and 12, which would make the program try to pull data from a fixed header.
* Random3.irl
  + 
  + Random3’s error is that the packet is smaller than the DNS header, which is easily found by comparing the number of bytes received by recv with the size of FixedDNSheader.
* Random5.irl
  + ![Text

    Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD6RXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAgAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEF1c3RpbiBQZXRlcnNvbgAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADMzkAAJKSAAIAAAADMzkAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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JSdl/VtROSSuzttU8c6Bdf2zq1pZ6gNc1qy+yTpKU+zw7godkIO4528AgdazNe1rw5e+B9I0jTpNUN3pZlZGnt41jkMrKzZIkJGNvHHPtXH1d0nTzqmqRWayCLzN3zkZxhSen4Uoxc5KMd2Dairs7DSPF3h5YfDU+uW+pfbfD7jyxaqhjmQS71JLMCCPTv7VzqXmi3niPUbvWI702lwZ5IVtiocSMSU3Z4wM84/WsU9eKSpGFaGjaFqXiG+Nno9q1zOqGQoGC4UYySSQMcis+igD0jUfENp4X+JeiXEhF6uj6ZDY3YtmDfOIDG4U9CRu/MYpdP8ZeE9KttFgsotYK6RqZu0MscRMyMF3Zw4w3HAGRx15482ooA77W/HWmaloup2cEF2sl3YxW8ZdFADJePOScN02uB9c9ua1/GOt6HonizxFJHFqEmsXlh9iKEILdRJCil92d2dvbHXPPp5vbaebjTL288zatps+XbncWOPw6VSqpRcUm+v/DCTTbS6BXb6Z4l8Nx6D4fj1WHU5bzRJZZUhgSMRTFpA4BctuA4GcL61xFFSM9B0T4j+VZanb6hd6npsl9qMmoi50naW3uMMjKxAK8AjnIq14NF1rPijV9TvZLi68PXkUlpqN9eypGyoUyrN82Nw2qeM15wkLSQyyAjEYBOfc4qXT7NtR1KC0RgjTOEDHoM1Si20l1E2krnXr42spfHeuahqEE76Xq1vLYstvgSRwHaEKhuMgInB96nt/G2h6drvh0abbX/APZOiRzjdMEM8ryhtx2g7QMkcZ6Vw95bGzvp7ZmDNDI0ZYdCQcZ/SprnTzbaXZXhk3fa9+EC/dCtjrT9nLXy3++wuZaeZ0OgeMYND0PSoFgkkurHWzqLAgbGj8tF2g5zu+U9sdKsal4h8Mx+Gtc0/Q4tUM2rXMM+67SMKmxmO35WPTcee/tiuJoqCgr1W51vQ/Dt94W1e+i1CXU7PQ4Gt4oQnkyEqwXexO5cEnOAc8dO/lVFAHpfhX4iaRoGmaNFs1C3ksWP2qC1hhMd3l872diGyFPT2AyBWXH4h8MXOm6houqR6t/Zz6idQtLm3SMTKzKFZXQttxgDoe1c/N4bvIPD6aw8kBt3xhQx38nHTGP1rIq5wlC3N1EpKWx2WieMLbwpba9H4ca6V7wwfYpbqCJyoRiW3qcgEgnGAf61op8QrCDx5deILWLUIBqth5F95bqJIJTt3NCxJyAUUjdjuOBivPKKgZ1XiDxT9u1rTryDVNU1VbFxIv8AaiqpVgwOAFZuDgd6j8Yah4b1i+uNU0RdUjvr25ae4iulj8pN2WbaynJ+Y8ZA4rmaKACvQta8aaA99rOq6NBqMmpatZmzYXSIkUCMio5G1mLEheM4xmuMvdKkstNsLx5FZb1XZVA5XaQOfzqhVShKDtL+r6iTTV0eh2HjnQIP7L1e5s9QbXdL037BDGhT7M+1GRHY53A7W5GO1N8O+NdAsdP8Nf2vbai134fnkaIW2zy5Ukk3knJByM8DofUV59U9nbm8voLZWCmaRYwx7ZOM/rSSbdkDdlc6HWNf0yfw1d6Tpq3bCTWGvo3uI1X92Y9uDhj82fwx37Vtaj420HW77xJBqUOoxadq1zFdQSQIhmidFxhlLbSCD61wl5b/AGS+ntw2/wAmRk3YxnBxnFQUSTi7ME7q6PR4/HegR+IRdQ2t9BBHo0On284iikmtnTA3qrHacgYzkHml1Lxr4b1jVvD1/fS60ZtIP7xvs8LGbbJvU/fABPcdu2a83opDOk1oxeJ/Hc03hNL2aXUbl50jnRI5FkZmcgYYjA9c103xQ1iL7DZaYqpHqV063+sRpIHCXHlLGFypI6Bmx/tV5rRQAUUUUAFFFFABRRVqysJb77R5LIPs8DTtuJ5VeoHvzTSbdkJuxVooopDCirttp5uNMvbzzNq2mz5dudxY4/DpVKqlFxSb6/8ADCTTbS6BRRRUjCiiruraedK1OWzMnmtFjLBcZJAP9apRbi5dF+v/AAwrq9ilRRV7SNKn1rUFs7Vo0kZSwMhIHH0BojFyaitwbSV2UaKtajYy6ZqE1nOyNJCcMUJIPGeM1VpNOLswTurhRRRSGFFFXtI07+1L2S383ytlrcXG7buz5ULy46jrsxntnPPSgCjRRW/Z28DfDnWLloYzPHqthGkpUblVorssoPUAlFJHfaPQUAYFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf/9k=)
  + Random5 inserts a jump that would lead the program to look outside of the packet itself, checked by seeing if the offset is larger than the size of the response packet.
* Random6.irl
  + 
  + Random6 results in a jump offset that leads the pointer to another ‘0xC0’ value in the packet, resulting in a jump loop. This is easily checked by looking at the value that is found immediately after the jump, and seeing if it indicates another jump.
* Random1.irl
  + 
  + Random1, my personal favorite due to the star wars answers, returns the error “not enough records”, which is pretty obvious because the packet suggests that there should be 65535 additional records but the packet itself contains significantly fewer records than that.
* Random7.irl
  + 
  + Random7’s error is truncated jump offset
* Random4.irl
  + 
  + Random4’s first error is truncated fixed header, calculated by checking if the current position plus the DNSanswerHdr size is greater than the number of bytes received, indicating a truncated buffer.
  + 
  + Random4’s second error is that the RR value stretches the answer beyond the packet, which is checked by adding the RRheader’s len variable to the current position and seeing if that is larger than the size of the packet itself.
  + 
  + The last error of random4 is truncated name, which is found while parsing a given RR. If the current position minus the response buffer plus the size of the next string found in the buffer is more than the number of bytes received, then the name has been truncated.
* Random8
  + 
  + As far as I can tell random 8 just inserts a bunch of lols into the answer to throw off the program. My guess is that the server is trying to insert as much text as possible to attempt to cause a buffer overflow with the buffer used to read text when parsing the buffer, resulting in overwritten data and invalid records