Computer Networks 2021 Exercises - Unit 5

FAN: liu1382

NOTE: Each student's work unit is unique. You *must* use the work that has been generated for your FAN. If you do not, then you will fail this work unit.

NOTE: You must record your answers in the answer file EXACTLY as required, and commit and make sure your changes have been pushed to the github server, as they will otherwise not be counted.

NOTE: The topic coordinator will periodically run the automatic marking script, which will cause a file called unit5-results.pdf to be updated in your repository. You should check this file to make sure that your answers have been correctly counted. That file will contain the time and date that the marking script was last run, so that you can work out if it has been run since you last changed your answers. You are free to update your answers as often as you wish, until the deadline for the particular work unit.

1 TCP/IP And Related Protocol Packet Formats and Header Fields

For each question, you must record your answer in the unit5-answers.txt file in your git repository. Templates for each answer are provided in `unit5-answers.txt` *for your convenience.*

You will find information on the packet header formats in many places, including:

- *https://en.wikipedia.org/wiki/Ethernet_frame#Header*
- *https://en.wikipedia.org/wiki/IPv4#Header*
- *https://en.wikipedia.org/wiki/Address_Resolution_Protocol*
- *https://en.wikipedia.org/wiki/Transmission_Control_Protocol#TCP_segment_structure*
- *https://en.wikipedia.org/wiki/User_Datagram_Protocol#UDP_datagram_structure*

Considering the following packet:

```
# 0x0000:  eb32 7f58 fa8f b914 ecd2 ba4d 0800 4500  .2.X.......M..E.
# 0x0010:  0055 0000 4000 2b11 0000 7bb4 6212 6252  .U..@.+...{.b.bR
# 0x0020:  a09d 1ae6 c953 006e 58d1 de6e d542 a3b0  .....S.nX..n.B..
# 0x0030:  5735 3ea3 f993 057f 812d 517c 42b2 f2e9  W5>......-Q|B...
# 0x0040:  f6c5 8e09 1cc2 bdc1 0e9c cb24 eb6e 72b4  ...........$.nr.
# 0x0050:  3bab 9e7a 11d8 2e05 eb9f 8959 bc2d 5bed  ;..z.......Y.-[.
# 0x0060:  a9cc 4c                                  ..L
```

Find the value of the following fields:

Question ID	**Field**	**Type**
ab	*UDP destination port*	*Integer: Answer with the decimal value of the field.*
ac	*IP Don't Frag*	*Boolean: Answer Y or N*
ad	*IP More Fragments*	*Boolean: Answer Y or N*
ae	*ETH source address*	*Ethernet MAC Address. Answer in the customary format, retaining leading zeroes, e.g., 02:ca:fe:f0:0d:00*
af	*IP destination address*	*IPv4 address. Answer in dotted quad notation, e.g., 129.96.1.21*
ag	*IP source address*	*IPv4 address. Answer in dotted quad notation, e.g., 129.96.1.21*

Considering the following packet:

```
# 0x0000:  3cdc 2a2a 5d7e 3af3 564a 39f9 8847 0000  <.**]~:.VJ9..G..
# 0x0010:  ffef 4500 0082 0000 0000 3006 0000 f8ee  ..E.......0.....
# 0x0020:  b824 0f9b 95e1 2fbb 5c78 5a06 f558 14f6  .$..../.\xZ..X..
# 0x0030:  5308 5030 9e16 0000 0004 78bf c639 7d70  S.P0......x..9}p
# 0x0040:  fadc feec da84 3023 08ab f99d 65ec 9aba  ......0#....e...
# 0x0050:  d2ef 7a5d 935d 3254 bd3f 4256 3fa1 720d  ..z].]2T.?BV?.r.
# 0x0060:  0179 bcb7 7c85 2a6b 460d 03aa 1aab 4075  .y..|.*kF.....@u
# 0x0070:  5b1d 2b3f 9ff3 1167 00a1 e431 9ff8 514a  [.+?...g...1..QJ
# 0x0080:  fd37 8d11 3f1d 689b f358 6aa5 4f23 4a1c  .7..?.h..Xj.O#J.
# 0x0090:  7d37 2e38                                }7.8
```

Find the value of the following fields:

Question ID	**Field**	**Type**
ah	*MPLS TTL*	*Integer: Answer with the decimal value of the field.*
ai	*IP Protocol of payload*	*Integer: Answer with the decimal value of the field.*
aj	*TCP ACK sequence number*	*Integer: Answer with the decimal value of the field.*
ak	*ETH destination address*	*Ethernet MAC Address. Answer in the customary format, retaining leading zeroes, e.g., 02:ca:fe:f0:0d:00*
al	*TCP URG*	*Boolean: Answer Y or N*
am	*TCP PSH*	*Boolean: Answer Y or N*

Considering the following packet:

```
# 0x0000:  3a32 99da 2ce3 f513 397b adce 0806 0001  :2..,...9{......
# 0x0010:  0800 0604 0001 558c 559e 87a4 8d5c 984f  ......U.U....\.O
# 0x0020:  b6d1 9ed6 e2cf b0c1 8b2a 03c0 6335 d4c7  .........*..c5..
# 0x0030:  03a6 61ea 4930 1f14 4b02 17df 1dd9 132e  ..a.I0..K.......
# 0x0040:  f123 dfa2 0917 cdb7 bacd ec9b 322e 6619  .#..........2.f.
# 0x0050:  5c31 cb35 e51d fc6c e53e ccef e8f0 4e4e  \1.5...l.>....NN
# 0x0060:  19c8 d552 5dff cb1e 9bbd 3519 d235 4e27  ...R].....5..5N'
# 0x0070:  4cae 3979 37be a0f6 56dc a099 d686 79c7  L.9y7...V.....y.
# 0x0080:  6ad6 873f 640d e982 ebff cbab e9a0 ee    j..?d..........
```

Find the value of the following fields:

Question ID	**Field**	**Type**
an	*ARP source MAC*	*Ethernet MAC Address. Answer in the customary format, retaining leading zeroes, e.g., 02:ca:fe:f0:0d:00*
ao	*ARP PTYPE*	*Integer: Answer with the decimal value of the field.*
ap	*ARP target MAC*	*Ethernet MAC Address. Answer in the customary format, retaining leading zeroes, e.g., 02:ca:fe:f0:0d:00*
aq	*ARP request*	*Boolean: Answer Y or N*
ar	*ARP HTYPE*	*Integer: Answer with the decimal value of the field.*
as	*Frame is 802.1ad*	*Boolean: Answer Y or N*

Considering the following packet:

```
# 0x0000:  f29e c801 de8b dce4 2202 d3a9 8848 0000  ........"....H..
# 0x0010:  3526 4500 0051 0000 4000 3806 0000 d499  5&E..Q..@.8.....
# 0x0020:  5406 d1cb f554 a454 9398 7c59 c688 7756  T....T.T..|Y..wV
# 0x0030:  6522 5019 0757 0000 0006 71bc 17e3 f03a  e"P..W....q....:
# 0x0040:  858e b342 900c b404 3cb5 b68d 05c4 44ca  ...B....<.....D.
# 0x0050:  ecfb 60fa e30d 142c 458e ccdd 5e62 8643  ..`....,E...^b.C
# 0x0060:  fea7 8d                                  ...
```

Find the value of the following fields:

Question ID	**Field**	**Type**
at	*MPLS label*	*Integer: Answer with the decimal value of the field.*
au	*TCP ACK sequence number*	*Integer: Answer with the decimal value of the field.*
av	*TCP ACK*	*Boolean: Answer Y or N*
aw	*MPLS last label?*	*Boolean: Answer Y or N*
ax	*MPLS TTL*	*Integer: Answer with the decimal value of the field.*
ay	*ETH source address*	*Ethernet MAC Address. Answer in the customary format, retaining leading zeroes, e.g., 02:ca:fe:f0:0d:00*

Considering the following packet:

```
# 0x0000:  794d aa8b 477f 7075 2400 55ef 8847 0000  yM..G.pu$.U..G..
# 0x0010:  3b51 4500 0088 0000 4000 0f11 0000 76cb  ;QE.....@.....v.
# 0x0020:  ef07 c9a8 ba19 c3da 2d55 00fa cee6 6e06  ........-U....n.
# 0x0030:  3764 189e 6409 c94a faa8 4233 4279 8303  7d..d..J..B3By..
# 0x0040:  4ddf 4b07 6155 2fad 63c6 2f60 d90a ee99  M.K.aU/.c./`....
# 0x0050:  ff0f d51a 0f21 08c7 65c8 b03f 2ca4 b745  .....!..e..?,..E
# 0x0060:  7ef6 d8b4 f268 7e03 ed25 713f 0adf c4e5  ~....h~..%q?....
# 0x0070:  00b4 1248 bb3f 1726 9c0c 88e7 26c1 6dca  ...H.?.&....&.m.
# 0x0080:  0470 36ee 7b59 92ae 1a92 7b25 df10 d2b8  .p6.{Y....{%....
# 0x0090:  f8d3 3195 a30b 9eb5 e6c6                 ..1.......
```

Find the value of the following fields:

Question ID	**Field**	**Type**
az	*MPLS last label?*	*Boolean: Answer Y or N*
ba	*Frame is 802.1q*	*Boolean: Answer Y or N*
bb	*IP ECN*	*Integer: Answer with the decimal value of the field.*
bc	*UDP destination port*	*Integer: Answer with the decimal value of the field.*
bd	*MPLS TTL*	*Integer: Answer with the decimal value of the field.*
be	*IP source address*	*IPv4 address. Answer in dotted quad notation, e.g., 129.96.1.21*

Considering the following packet:

```
# 0x0000:  a7b2 448e 28f4 69c7 4d87 7ea6 8100 20a0  ..D.(.i.M.~.....
# 0x0010:  0800 4500 004d 0000 4000 3306 0000 1c02  ..E..M..@.3.....
# 0x0020:  30b5 f07d 613f fa67 fc74 713f 0529 6223  0..}a?.g.tq?.)b#
# 0x0030:  07e6 500b dedf 0000 0003 6d35 4528 08bf  ..P.......m5E(..
# 0x0040:  9ae6 733e ecf4 b2fa c1ee 2bff 18d2 87e0  ..s>......+.....
# 0x0050:  0cb8 0fc1 5cd8 666b b445 2d85 8e22 4c    ....\.fk.E-.."L
```

Find the value of the following fields:

Question ID	**Field**	**Type**
bf	*Frame is MPLS*	*Boolean: Answer Y or N*
bg	*TCP FIN*	*Boolean: Answer Y or N*
bh	*ETH frame type*	*Four-digit Hex: Answer with the four digit hexadecimal value of the field, e.g., 02AF. Do not put a leading 0x or $ on the front of the hexadecimal number.*
bi	*IP DSCP*	*Integer: Answer with the decimal value of the field.*
bj	*TCP ACK*	*Boolean: Answer Y or N*
bk	*ETH destination address*	*Ethernet MAC Address. Answer in the customary format, retaining leading zeroes, e.g., 02:ca:fe:f0:0d:00*

Considering the following packet:

```
# 0x0000:  2bd1 5a9a 8c8f 7e5a 29fb 274d 88a8 2d3f  +.Z...~Z).'M..-?
# 0x0010:  0806 0001 0800 0604 0002 a7ed be50 95c8  ............P..
# 0x0020:  3cfa df8d 8b21 7128 ca1f 6dfd 7054 6759  <....!q(..m.pTgY
# 0x0030:  423d f9a4 2b44 fd5e d828 2340 36d8 bec9  B=..+D.^.(#@6...
# 0x0040:  e2ea 5ef9 3362 6941 a338 125b b62a 5f9e  ..^.3biA.8.[.*_.
# 0x0050:  12b5 a6cc 6cd5 3b98 f14b 826d f5d4 6be9  ....l.;..K.m..k.
# 0x0060:  b7fb 90                                  ...
```

Find the value of the following fields:

Question ID	**Field**	**Type**
bl	*ARP PTYPE*	*Integer: Answer with the decimal value of the field.*
bm	*Frame is 802.1ad*	*Boolean: Answer Y or N*
bn	*ARP source IP*	*IPv4 address. Answer in dotted quad notation, e.g., 129.96.1.21*
bo	*ARP target IP*	*IPv4 address. Answer in dotted quad notation, e.g., 129.96.1.21*
bp	*ETH destination address*	*Ethernet MAC Address. Answer in the customary format, retaining leading zeroes, e.g., 02:ca:fe:f0:0d:00*
bq	*ARP HTYPE*	*Integer: Answer with the decimal value of the field.*

Considering the following packet:

```
# 0x0000:  782c 4b65 241b 2c10 8677 ca02 88a8 6fa3  x,Ke$.,..w....o.
# 0x0010:  0806 0001 0800 0604 0002 7d35 c405 34b4  ..........}5..4.
# 0x0020:  1fe6 4770 aac6 34a7 b1ef 8d03 8825 d35e  ..Gp..4......%.^
# 0x0030:  b1fd c973 5f79 e1a9 71bb e3b6 0f19 adc1  ...s_y..q.......
# 0x0040:  1f78 4c7b 7cda 83ef d0d3 dad2 09d6 943e  .xL{|..........>
# 0x0050:  9d50 92b6 0825 c6bb acc9 094d fa35 75a4  .P...%.....M.5u.
# 0x0060:  fc72 f88c 0ab0 15fd c903 3ecb 3944 ace7  .r........>.9D..
# 0x0070:  486c ef4d 79                             Hl.My
```

Find the value of the following fields:

Question ID	**Field**	**Type**
br	*ARP request*	*Boolean: Answer Y or N*
bs	*ARP reply*	*Boolean: Answer Y or N*
bt	*ARP source MAC*	*Ethernet MAC Address. Answer in the customary format, retaining leading zeroes, e.g., 02:ca:fe:f0:0d:00*
bu	*Frame is 802.1ad*	*Boolean: Answer Y or N*
bv	*ETH source address*	*Ethernet MAC Address. Answer in the customary format, retaining leading zeroes, e.g., 02:ca:fe:f0:0d:00*
bw	*ARP target IP*	*IPv4 address. Answer in dotted quad notation, e.g., 129.96.1.21*

Considering the following packet:

```
# 0x0000:  bfc4 c323 bc68 fede 8948 32d7 0806 0001  ...#.h...H2.....
# 0x0010:  0800 0604 0001 2767 4b2b b9a6 90af 9418  ......'gK+......
# 0x0020:  8ae4 f22c 3c83 8d6a 618c cc8b 2bfe c9cd  ...,<..ja...+...
# 0x0030:  c486 22ba 46d3 f9ef c793 f6e4 7484 6545  ..".F.......t.eE
# 0x0040:  2bfc c0a2 c395 73dd 78cd c25e 3a43 ab0a  +.....s.x..^:C..
# 0x0050:  404e c057 0c66 f9e3 1f72 7e2e 5969 8589  @N.W.f...r~.Yi..
# 0x0060:  392b 2ee6 1da6 1b1a 937f b230 035d 49e9  9+.........0.]I.
# 0x0070:  425a 5e29 4687 64f1                      BZ^)F.d.
```

Find the value of the following fields:

Question ID	**Field**	**Type**
bx	*ARP HTYPE*	*Integer: Answer with the decimal value of the field.*
by	*Frame is 802.1ad*	*Boolean: Answer Y or N*
bz	*ETH frame type*	*Four-digit Hex: Answer with the four digit hexadecimal value of the field, e.g., 02AF. Do not put a leading 0x or $ on the front of the hexadecimal number.*
ca	*ARP source IP*	*IPv4 address. Answer in dotted quad notation, e.g., 129.96.1.21*
cb	*Frame is MPLS*	*Boolean: Answer Y or N*
cc	*ARP target MAC*	*Ethernet MAC Address. Answer in the customary format, retaining leading zeroes, e.g., 02:ca:fe:f0:0d:00*

Considering the following packet:

```
# 0x0000:  7b20 b2f2 b953 adb9 8cc3 4dc6 0800 4500  {....S....M...E.
# 0x0010:  0081 0000 4000 1111 0000 deb8 fa1f 5b0c  ....@.........[.
# 0x0020:  f0ba 3d28 d211 00d1 1ec3 4425 6503 3e0e  ..=(......D%e.>.
# 0x0030:  e04f bad8 2d5f 13a9 a148 9c69 b506 27af  .O..-_...H.i..'.
# 0x0040:  7cb6 d5d5 ed88 2a58 5240 e756 23ef 5408  |.....*XR@.V#.T.
# 0x0050:  225a c584 beca 0d38 9396 4106 8971 daa7  "Z.....8..A..q..
# 0x0060:  c94d ab94 35ea 71fc 1df8 021b cdfa 439e  .M..5.q.......C.
# 0x0070:  9cfa 7785 3776 f78c 0dd0 2ce2 a88d fc34  ..w.7v....,....4
# 0x0080:  17c1 2339 cd79 fa01 2b08 d82f 5d48 27    ..#9.y..+../]H'
```

Find the value of the following fields:

Question ID	**Field**	**Type**
cd	*IP Don't Frag*	*Boolean: Answer Y or N*
ce	*IP ECN*	*Integer: Answer with the decimal value of the field.*
cf	*IP DSCP*	*Integer: Answer with the decimal value of the field.*
cg	*Frame is 802.1q*	*Boolean: Answer Y or N*
ch	*IP source address*	*IPv4 address. Answer in dotted quad notation, e.g., 129.96.1.21*
ci	*Frame is MPLS*	*Boolean: Answer Y or N*

Considering the following packet:

```
# 0x0000:  df68 4125 3fd3 2cdf 95d3 7641 0800 4500  .hA%?.,...vA..E.
# 0x0010:  0064 0000 0000 1811 0000 cc73 5cb9 5002  .d.........s\.P.
# 0x0020:  a71b 8081 b992 00e6 7050 25c6 41e2 359b  ........pP%.A.5.
# 0x0030:  f648 d348 13e8 dcb0 69a3 4d1f 85e4 acb3  .H.H....i.M.....
# 0x0040:  9af2 31d6 94b0 8e9e a443 91a5 ecec c8ae  ..1......C......
# 0x0050:  35eb 6c63 7f38 6349 1e68 73d2 4aba 82c4  5.lc.8cI.hs.J...
# 0x0060:  5d81 48f6 0c4b 0dfe 57a4 dd3d b7dd 42d2  ].H..K..W..=..B.
# 0x0070:  6c33                                     l3
```

Find the value of the following fields:

Question ID	**Field**	**Type**
cj	*IP source address*	*IPv4 address. Answer in dotted quad notation, e.g., 129.96.1.21*
ck	*IP Don't Frag*	*Boolean: Answer Y or N*
cl	*IP length*	*Integer: Answer with the decimal value of the field.*
cm	*UDP destination port*	*Integer: Answer with the decimal value of the field.*
cn	*Frame is MPLS*	*Boolean: Answer Y or N*
co	*IP TTL*	*Integer: Answer with the decimal value of the field.*

Considering the following packet:

```
# 0x0000:  d472 f043 40ac 81f2 cac9 e643 8847 0000  .r.C@......C.G..
# 0x0010:  f905 4500 0066 0000 0000 0706 0000 8f85  ..E..f..........
# 0x0020:  dae9 a302 5f1c 4771 4ebc 43d1 8265 0356  ...._.GqN.C..e.V
# 0x0030:  90eb 508a 5295 0000 0003 1422 7ed2 11ba  ..P.R......"~...
# 0x0040:  8ffe c493 d469 9a25 d77f 775a b696 8d50  .....i.%..wZ...P
# 0x0050:  f8de c38d 7fcf e263 f842 10c4 4313 f6fc  .......c.B..C...
# 0x0060:  2a5a f9af 921a ae7c c9e0 cd66 9eaf 8c6b  *Z.....|...f...k
# 0x0070:  5ff4 ab1b d7a0 5334                      _.....S4
```

Find the value of the following fields:

Question ID	**Field**	**Type**
cp	*ETH destination address*	*Ethernet MAC Address. Answer in the customary format, retaining leading zeroes, e.g., 02:ca:fe:f0:0d:00*
cq	*TCP FIN*	*Boolean: Answer Y or N*
cr	*IP TTL*	*Integer: Answer with the decimal value of the field.*
cs	*TCP destination port*	*Integer: Answer with the decimal value of the field.*
ct	*IP length*	*Integer: Answer with the decimal value of the field.*
cu	*Frame is 802.1q*	*Boolean: Answer Y or N*

Considering the following packet:

```
# 0x0000:  fed4 412c 4ca1 2042 da3a 2371 0800 4500  ..A,L..B.:#q..E.
# 0x0010:  004c 0000 4000 2911 0000 08a6 9b00 f625  .L..@.).........%
# 0x0020:  3070 c283 10f8 00b2 71d5 9413 61f9 6d7a  0p......q...a.mz
# 0x0030:  c925 ad2b bcd2 ed6e 07bf 014d 8e7d c6ba  .%.+...n...M.}..
# 0x0040:  5b17 09f9 a00e d972 de9b a6e6 3047 cd9d  [......r....0G..
# 0x0050:  69da 3e4e cb2e 6dba 3183                 i.>N..m.1.
```

Find the value of the following fields:

Question ID	**Field**	**Type**
cv	*IP Don't Frag*	*Boolean: Answer Y or N*
cw	*ETH source address*	*Ethernet MAC Address. Answer in the customary format, retaining leading zeroes, e.g., 02:ca:fe:f0:0d:00*
cx	*ETH destination address*	*Ethernet MAC Address. Answer in the customary format, retaining leading zeroes, e.g., 02:ca:fe:f0:0d:00*
cy	*IP Protocol of payload*	*Integer: Answer with the decimal value of the field.*
cz	*IP DSCP*	*Integer: Answer with the decimal value of the field.*
da	*Frame is MPLS*	*Boolean: Answer Y or N*

Considering the following packet:

```
# 0x0000:  e7ba 29da 1e9e 4196 1582 6b1e 8848 0000  ..)...A...k..H..
# 0x0010:  a9ef 4500 0075 0000 4000 0006 0000 07c2  ..E..u..@.......
# 0x0020:  84c0 9100 8ae9 2042 1cd7 2c83 a658 385d  .......B..,..X8]
# 0x0030:  cc4f 503b 6f90 0000 0006 bdad 1936 163b  .OP;o........6.;
# 0x0040:  3264 ed79 090b c247 f8cc 7286 2574 b31a  2d.y...G..r.%t..
# 0x0050:  bb85 c27e 3758 c48e 2387 96de 04b2 4eb8  ...~7X..#.....N.
# 0x0060:  5be2 b7c2 12f6 d572 a6fe d20b b82e 583d  [......r......X=
# 0x0070:  4d6a b9a9 343d f845 82e4 8f4c 566c 0199  Mj..4=.E...LVl..
# 0x0080:  cfc0 eda0 50d7 a0                        ....P..
```

Find the value of the following fields:

Question ID	**Field**	**Type**
db	*TCP ACK*	*Boolean: Answer Y or N*
dc	*ETH frame type*	*Four-digit Hex: Answer with the four digit hexadecimal value of the field, e.g., 02AF. Do not put a leading 0x or $ on the front of the hexadecimal number.*
dd	*IP source address*	*IPv4 address. Answer in dotted quad notation, e.g., 129.96.1.21*
de	*TCP PSH*	*Boolean: Answer Y or N*
df	*IP More Fragments*	*Boolean: Answer Y or N*
dg	*ETH source address*	*Ethernet MAC Address. Answer in the customary format, retaining leading zeroes, e.g., 02:ca:fe:f0:0d:00*

Considering the following packet:

```
# 0x0000:  4014 cf2e fc4f 8699 a2bc d149 88a8 3618  @....O.....I..6.
# 0x0010:  0800 4500 0034 0000 0000 3311 0000 aeaa  ..E..4....3.....
# 0x0020:  e4b6 a24c 00ca 581f 1eed 0044 3396 058e  ...L..X....D3...
# 0x0030:  b638 9def 88ca 12f1 1eea f419 f2b6 4800  .8............H.
# 0x0040:  53f8 484a 60dc                           S.HJ`.
```

Find the value of the following fields:

Question ID	Field	Type
dh	*IP source address*	*IPv4 address. Answer in dotted quad notation, e.g., 129.96.1.21*
di	*Frame is 802.1ad*	*Boolean: Answer Y or N*
dj	*IP length*	*Integer: Answer with the decimal value of the field.*
dk	*ETH destination address*	*Ethernet MAC Address. Answer in the customary format, retaining leading zeroes, e.g., 02:ca:fe:f0:0d:00*
dl	*IP Protocol of payload*	*Integer: Answer with the decimal value of the field.*
dm	*IP TTL*	*Integer: Answer with the decimal value of the field.*

2 Lecture Material Comprehension

The following questions are designed with two purposes in mind:

1. To help you engage with the lecture materials; and

2. To help generate a wide range of questions for the quizzes in this topic.

The second goal is not mandatory for you. However, if you are willing for the answers you provide to the questions in this section to be used in future quizzes in this topic, you are requested to answer the following question as follows *you will not be penalised if you do not give this permission*

Question#	Description
dn	Are you willing to release your following answers in this section from all copyrights, i.e., release them into the public domain, including so that they can be included in quizzes in this topic? *you will not be penalised or treated any differently if you do not choose to give this permission*

It is important that you answer this question with 'y', if you do decide that you would like to do this (but again, you have no obligation to do so, and you will not be treated differently whether or not you give permission).

The entry in `unit5-answers.txt` would thus look like:

```
# Question 'dn': Do you commit the following answers to the public domain
#  and disclaim all copyrights in them?
dn=y
```

For each question, you must record your answer in the unit5-answers.txt file in your git repository. For each question, you are required to write a statement that is either true or false about the material in the indicated lecture slide.

For example, if you were asked 'write a **true** *statement about the content of Slide 2 of Chapter 1', you would put the statement at the end of the* `rj=` *line in the file* `unit5-answers.txt`*. For example, if your statement was 'One of the problems addressed in this chapter is how to build scalable networks', you would write:*

Question#	Description
pz	*Write a* **true** *statement about the content of Slide 2 of Chapter 1*

The entry in `unit5-answers.txt` *would thus look like:*

```
# Question 'pz': Write a true statement about the content of Slide 2 of Chapter 1

pz=One of the problems addressed in this chapter is how to build scalable networks
```

Templates for each answer are provided in `unit5-answers.txt` for your convenience.

If you are asked to write a statement that is false, i.e., untrue, think about statements that someone who has not worked through the material might think would be true. Be creative! Be devious!

Question#	Description
do	Write a **false** statement about the content of Slide 98 of Chapter 6
dp	Write a **true** statement about the content of Slide 59 of Chapter 3
dq	Write a **true** statement about the content of Slide 86 of Chapter 3
dr	Write a **false** statement about the content of Slide 42 of Chapter 6
ds	Write a **false** statement about the content of Slide 29 of Chapter 8
dt	Write a **true** statement about the content of Slide 36 of Chapter 5
du	Write a **false** statement about the content of Slide 67 of Chapter 9
dv	Write a **false** statement about the content of Slide 94 of Chapter 2
dw	Write a **true** statement about the content of Slide 7 of Chapter 4
dx	Write a **false** statement about the content of Slide 81 of Chapter 2