

### **Project 2 Part C: DNS and dig**

- a) In order to find the list of names of DNS servers that were used to find the IP address for [www.cs.ucdavis.edu](http://www.cs.ucdavis.edu), we had to use the command `dig www.cs.ucdavis.edu +trace`.

Pictures of this trace are provided below, and the resulting line of servers were:

- i) l.root-servers.net
- ii) k.edu-servers.net
- iii) dns-2.ucdavis.edu
- iv) 169.237.212.78

- b) We proceeded to use this same command to find the line of servers for [www.google.com](http://www.google.com), [www.yahoo.com](http://www.yahoo.com), and [www.amazon.com](http://www.amazon.com). Similarly, the pictures of these traces are provided below, as well as the resulting line of servers.

- i) [www.google.com](http://www.google.com):
  - 1) a.root-servers.net
  - 2) a.gtld-servers.net
  - 3) ns2.google.com
  - 4) 142.250.68.68
- ii) [www.yahoo.com](http://www.yahoo.com):
  - 1) m.root-servers.net
  - 2) d.gtld-servers.net
  - 3) ns1.yahoo.com
  - 4) 98.138.11.157
- iii) [www.amazon.com](http://www.amazon.com):
  - 1) a.root-servers.net
  - 2) a.gtld-servers.net
  - 3) pdns1.ultradns.net
  - 4) 208.78.70.31

# Pictures of Traces:

[www.cs.ucdavis.edu](http://www.cs.ucdavis.edu):

```
<<> Dig 9.10.3-P4-Debian <<> www.cs.ucdavis.edu +trace
;; global options: +cmd
24453 IN NS l.root-servers.net.
24453 IN NS g.root-servers.net.
24453 IN NS i.root-servers.net.
24453 IN NS d.root-servers.net.
24453 IN NS e.root-servers.net.
24453 IN NS b.root-servers.net.
24453 IN NS m.root-servers.net.
24453 IN NS c.root-servers.net.
24453 IN NS h.root-servers.net.
24453 IN NS k.root-servers.net.
24453 IN NS j.root-servers.net.
24453 IN NS a.root-servers.net.
24453 IN NS f.root-servers.net.
24453 IN RRSIG NS 8 0 518400 20210320170000 20210307160000 42351 . ShUo5b1XVE0/4LbGQratRf1ZeStF1
BjEpkTz9XasyB3GgITN4Ud7Tjy 9VYvQqic8RaJYPR5XV1xJ4EBIemf1BL0yI1YqByUxc8WmwWq4t8HM YVh9CjfMAuqy1V34t0t+DmJu3M1VBVRdVufsiKvn311X
DqqtclbruyC5 AUZx7y7HFPxP5wjr6p+ARQ2UMB6wKfx4JNFkg+2ldYpkQt5egth6bg AwMg9+opInxtvBvwhdZMJ107Kjg0ANst/OdzAEbKXgeUyEMNP4dvH2 Ge
SV1Rs5ze8rFvuuyVIQZ7Q8me07NEax1S9jZM5cV/HKF8mqG50sqyV2 auvHQg==
;; Received 525 bytes from 100.115.92.193#53(100.115.92.193) in 19 ms

edu. 172800 IN NS k.edu-servers.net.
edu. 172800 IN NS i.edu-servers.net.
edu. 172800 IN NS l.edu-servers.net.
edu. 172800 IN NS g.edu-servers.net.
edu. 172800 IN NS m.edu-servers.net.
edu. 172800 IN NS j.edu-servers.net.
edu. 172800 IN NS e.edu-servers.net.
edu. 172800 IN NS b.edu-servers.net.
edu. 172800 IN NS h.edu-servers.net.
edu. 172800 IN NS c.edu-servers.net.
edu. 172800 IN NS a.edu-servers.net.
edu. 172800 IN NS d.edu-servers.net.
edu. 172800 IN NS f.edu-servers.net.
86400 IN DS 28065 8 2 4172496CDE85534E511290403558D0481FCFEBAE996DFDDE652006F6 F8B2CE76
edu. 86400 IN RRSIG DS 8 1 86400 20210320170000 20210307160000 42351 . IA1cvK7Knpd9XnShUnw8mW1zjg9qZd
sePdiByiFL0y2nPTxt0YVUA2B3 VNBWb0dtEP5gn+2lZzCKRAJ5U9xFXE/1J8MU1H5cM1avFwvfrUzS2W0 wnvSABh7dU11lqg+ZFr8tK6o9+34dwLj7jdqFHS1DG688
7MDY125S8gr C2kdGhtfCnWnWVQ3C0DPW7FHayee/BL7PgmD1+YrIm6Y5QKudPg5q dS0z07Teua7Z1nJ/13HNTMqoUchEHS72LqP7951bm5yqESu6y6eJNo4 bum
120C8S+Nm/4QYwZ268Fw375xxjQtrdJYSYd6tFJ8FLFAvEYIMMJT QUI0QA==
;; Received 1177 bytes from 2001:500:12::d0#53(g.root-servers.net) in 115 ms
```

```
ucdavis.edu. 172800 IN NS dns-two.ucdavis.edu.
ucdavis.edu. 172800 IN NS dns-one.ucdavis.edu.
ucdavis.edu. 172800 IN NS dns-three.ucdavis.edu.
86400 IN DS 39682 8 2 36694C20C082DA23204F80F47518B258ADD0A8FF37C1D17E6993FC43 BF46AC71
ucdavis.edu. 86400 IN DS 39682 8 1 550654FC8077F5A2450741F57903147685144E38
ucdavis.edu. 86400 IN DS 42136 8 2 25F196AE1081478CBEEA810ED6A49903C03118FA5CDF5F784697447 553E5121
ucdavis.edu. 86400 IN RRSIG DS 8 2 86400 20210313085838 20210306074838 62987 edu. ESU5ew7ISFpFKIACQ6BdGULO/sw
mXrS9BwHtIIMB/FuzPKmZ0B5VGv 6ELVG9qcpNs1iU0kOdM65+3jog2ko2FV/XthQZzn1XKhjWAGjYxG GcQPMYjZMxAlnK570mqU86yh1+i1AwqSLa8mDjR40
wimgM40yS8e7hh CNW/pCpLy0DCU/Ga13s3d/EAh5LIpWnQicX/6eWwXp6cQ==
;; Received 574 bytes from 2001:502:7094::30#53(j.edu-servers.net) in 222 ms

www.cs.ucdavis.edu. 28800 IN A 169.237.212.78
cs.ucdavis.edu. 28800 IN NS dns-one.ucdavis.edu.
cs.ucdavis.edu. 28800 IN NS dns-three.ucdavis.edu.
cs.ucdavis.edu. 28800 IN NS dns-two.ucdavis.edu.
;; Received 173 bytes from 128.120.252.10#53(dns-two.ucdavis.edu) in 35 ms
```

[www.google.com](http://www.google.com):

```
<<> Dig 9.10.3-P4-Debian <<> www.google.com +trace
;; global options: +cmd
47787 IN NS a.root-servers.net.
47787 IN NS b.root-servers.net.
47787 IN NS c.root-servers.net.
47787 IN NS d.root-servers.net.
47787 IN NS e.root-servers.net.
47787 IN NS f.root-servers.net.
47787 IN NS g.root-servers.net.
47787 IN NS h.root-servers.net.
47787 IN NS i.root-servers.net.
47787 IN NS j.root-servers.net.
47787 IN NS k.root-servers.net.
47787 IN NS l.root-servers.net.
47787 IN NS m.root-servers.net.
47787 IN RRSIG NS 8 0 518400 20210320170000 20210307160000 42351 . ShUo5b1XVE0/4LbGQratRf1ZeStF1
BjEpkTz9XasyB3GgITN4Ud7Tjy 9VYvQqic8RaJYPR5XV1xJ4EBIemf1BL0yI1YqByUxc8WmwWq4t8HM YVh9CjfMAuqy1V34t0t+DmJu3M1VBVRdVufsiKvn311X
DqqtclbruyC5 AUZx7y7HFPxP5wjr6p+ARQ2UMB6wKfx4JNFkg+2ldYpkQt5egth6bg AwMg9+opInxtvBvwhdZMJ107Kjg0ANst/OdzAEbKXgeUyEMNP4dvH2 Ge
SV1Rs5ze8rFvuuyVIQZ7Q8me07NEax1S9jZM5cV/HKF8mqG50sqyV2 auvHQg==
;; Received 525 bytes from 100.115.92.193#53(100.115.92.193) in 24 ms

com. 172800 IN NS a.gtld-servers.net.
com. 172800 IN NS b.gtld-servers.net.
com. 172800 IN NS c.gtld-servers.net.
com. 172800 IN NS d.gtld-servers.net.
com. 172800 IN NS e.gtld-servers.net.
com. 172800 IN NS f.gtld-servers.net.
com. 172800 IN NS g.gtld-servers.net.
com. 172800 IN NS h.gtld-servers.net.
com. 172800 IN NS i.gtld-servers.net.
com. 172800 IN NS j.gtld-servers.net.
com. 172800 IN NS k.gtld-servers.net.
com. 172800 IN NS l.gtld-servers.net.
com. 172800 IN NS m.gtld-servers.net.
com. 86400 IN DS 30909 8 2 E203C916F6DEEAC73294E8268FB5885044A833FC5459588F4A9184CF C41A5766
com. 86400 IN RRSIG DS 8 1 86400 20210320170000 20210307160000 42351 . UfVHR+2M7j1+z0AwTctGNMVTymHZ1m
mg6E9EztW2aUldjRqYsaEYf+Kx J4LY1paPisihpZWjKlaAwGZB44trSP1enXfmiqhHJAFw/NnnUJz3EdK Vym3VzhJY3tZBtEnFRECCyCBY7829akTo3851HNEXv14
B1GQc4dm0Y4 MvYadQlASeAv-Owso57shw4+v3J19p1Gy36580xSKSHtG4hx3PJ8Jk s4FSP13mVnW1fYgkogdZQ4NpCEwSxoYjuPcGD9ZKYuBoPe6vs7J06 09T
60cSPqQElauhUpnKosPElr+Ed5zKx1FLZyeu361HQ+8RC2d+gIrK6 uSBYcg==
;; Received 1174 bytes from 2001:500:9f::42#53(l.root-servers.net) in 87 ms
```

```
google.com. 172800 IN NS ns2.google.com.
google.com. 172800 IN NS ns1.google.com.
google.com. 172800 IN NS ns3.google.com.
google.com. 172800 IN NS ns4.google.com.
CK0PJMG874LJREF7EFN8430QVIT8BSM.com. 86400 IN NSEC3 1 1 0 - CK0Q1G1N43N1ARRC90SM6QPQR81HSM9A NS SOA RRSIG DNSKEY NSEC3PARAM
CK0PJMG874LJREF7EFN8430QVIT8BSM.com. 86400 IN RRSIG NSEC3 8 2 86400 20210313054023 20210306043023 58540 com. ML/ush0Hvdw0xdTHUz8
cQ6eLWqtp92y/40Xp9p5G2X1Mq4E/R9acR21N hjS5eufMK5eKSt1Fxo0Uti0EahngPpntw0nchH121tBEyFVBhPnoInJ PX3N1FOjZ1s2wZKYN09f8YKoggs0v45UM
e80YvjZtPAG4SU42m3K4 8d0D409K4c510mkgy75c3YrHmHE-Ht4YfFvFv4b0Kq==
S84BDVKNH5AGDS17F5J003NPRH0U67J0.com. 86400 IN NSEC3 1 1 0 - S84BU06dGQCvW69RfJU06LVC7FSLUNJ5 NS DS RRSIG
S84BDVKNH5AGDS17F5J003NPRH0U67J0.com. 86400 IN RRSIG NSEC3 8 2 86400 20210314053430 20210307042430 58540 com. IbEg7Bt85LY/t01D10Y
Zj1LN7RzfM8rmigEyT1de0X5A1aSuV3MpiKH0 /cded/121Z90wppvGn20FL3kYcvivTJuX+Asqj2ca8XsnkbyTKFuwz z8M20tM2mEukXCI0DP6xtKsX4J1yc8R5p3X
dhq3XuvD0JHP0hJjWfxJN1 urWBTjyBY89APtqQ0abznB2Hglkow2Leq7AU+SW3NuWg==
;; Received 840 bytes from 192.41.162.30#53(l.gtld-servers.net) in 25 ms

www.google.com. 300 IN A 142.250.68.68
;; Received 59 bytes from 2001:4860:4802:34::a#53(ns2.google.com) in 24 ms
```

## www.yahoo.com:

```
<<>> DiG 9.10.3-P4-Debian <<>> www.yahoo.com +trace
;; global options: +cmd

24306 IN NS m.root-servers.net.
24306 IN NS b.root-servers.net.
24306 IN NS c.root-servers.net.
24306 IN NS d.root-servers.net.
24306 IN NS e.root-servers.net.
24306 IN NS f.root-servers.net.
24306 IN NS g.root-servers.net.
24306 IN NS h.root-servers.net.
24306 IN NS a.root-servers.net.
24306 IN NS i.root-servers.net.
24306 IN NS j.root-servers.net.
24306 IN NS k.root-servers.net.
24306 IN NS l.root-servers.net.
24306 IN RRSIG NS 8 0 518400 20210320170000 20210307160000 42351 . ShUo5bLXVE0/4LbGQratRF1zeStF1
BjkepTZXasy83GqITN4Ud7TjY 9YVvqRicc8RaJYYPRSzXVlXJ4EBIemf1BL0yI1YgByUxc8WnmWq4t0HM VYh9CjfMAuqy1V34t0t+DmJu3MiVBVRdvsf1kvn311X
DqgtcLbruyC5 AUZX7y7HFPXpT5wjr6p+ARQ2UMB6wKf4JNFkg+2ldYpKQt5egth6bg AwMg9+opInxtvBvwhdZMJ107Kjg0ANst/OdzAEbKKXgeUyMEMP4dvH2 Ge
SVlRsSze8rFvuuyVIQZ7Q8me07NEax159jZM5cV/HKf8mqG50qyVZ auvHQg==
;; Received 525 bytes from 100.115.92.193#53(100.115.92.193) in 17 ms

com. 172800 IN NS d.gtld-servers.net.
com. 172800 IN NS l.gtld-servers.net.
com. 172800 IN NS j.gtld-servers.net.
com. 172800 IN NS a.gtld-servers.net.
com. 172800 IN NS h.gtld-servers.net.
com. 172800 IN NS m.gtld-servers.net.
com. 172800 IN NS i.gtld-servers.net.
com. 172800 IN NS c.gtld-servers.net.
com. 172800 IN NS e.gtld-servers.net.
com. 172800 IN NS g.gtld-servers.net.
com. 172800 IN NS b.gtld-servers.net.
com. 172800 IN NS k.gtld-servers.net.
com. 172800 IN NS f.gtld-servers.net.
com. 86400 IN DS 30909 8 2 E2D3C916F6DEEAC73294E8268FB5885044A833FC5459588F4A9184CF C41A5766
com. 86400 IN RRSIG DS 8 1 86400 20210320170000 20210307160000 42351 . UFvHR+2M7j1+z0AwTctGNMVTymHZ1m
mg6E9Eztw2aULdJRQySaEYfXg J4LYIpaI5ihgZWjKlAaWeGZB44trSPlenXfmiqhHJAFw/NnmUJz3EdK Vym3VzhJY3tZBtEnFRECCyCBV7829akTo3851HNEXv14
B1GQc4moy4 MuvTadQLA5eAv+Dws0z7sh/w4+v3J19pIGy36S8QxSKSHtGhX3PJ8KQ s4FSP13mVNm1fYgkogdZWQ4NpCEwSxoYjUjPCD92YXKu8oPe6Vs7J06 09T
60cSPpQEiauhUpnko5PElR+Ed5zKx1FLZyeu36IHg+8RC2d+gIrk6 uSBcYg==
;; Received 1173 bytes from 2001.dc3:35#53(m.root-servers.net) in 27 ms
```

```
yahoo.com. 172800 IN NS ns1.yahoo.com.
yahoo.com. 172800 IN NS ns5.yahoo.com.
yahoo.com. 172800 IN NS ns2.yahoo.com.
yahoo.com. 172800 IN NS ns3.yahoo.com.
yahoo.com. 172800 IN NS ns4.yahoo.com.
CK0PQJMG874JREF7EFN843QVIT8BSM.com. 86400 IN NSEC3 1 1 0 - CK0Q1G1N43M1ARRC90SM6QPQR81H5M9A NS SOA RRSIG DNSKEY NSEC3PARAM
CK0PQJMG874JREF7EFN843QVIT8BSM.com. 86400 IN RRSIG NSEC3 8 2 86400 20210313054023 20210306043023 58540 com. ML/ush0Hvdx0kdTHUz8
cgFeLwqTp92y/40XQp9G2IXMqHE/R9acR2Ll hj5SeuFMkSeKSt1fX0GtUrioEaHn9Pgp6nwonch12lTBeyFVBhPnoLnJ PX3NlF0jIz2sewK2YND9f8VKoqgs0v45UM
e8QyvjztpAGHSUF2knt3kf 8db2Pd9K4qCs10nkqyv7sx3WtWmNE+HTfyEnFqxqjbGKg==
GPI0QL0L7VLJ2SB4CTAILUST2C63MU96.com. 86400 IN NSEC3 1 1 0 - GPI0VESCC3CA0D1H14G1G14J0835GEKB NS DS RRSIG
GPI0QL0L7VLJ2SB4CTAILUST2C63MU96.com. 86400 IN RRSIG NSEC3 8 2 86400 20210313063239 20210306052239 58540 com. q2vo+s17wGBVC+ly1Jf
AWHGaCDBj6Ddp9XLc5is3mTkwRJoXkIwgtt LEWjYB9BsCP3utSFYUvUy0nZH1Wza2rKvTzhjfldrXKKBd7ldHDC9seR LM3gwGfK1kyaracid0NZv+6928h5S1/kx
70AHLktusZTQ3RPS705VXu MTUGqky1UwD5ctIqDxD6GjYp5qkNKRxf1g4zrT8389yUA==
;; Received 873 bytes from 192.12.94.30#53(e.gtld-servers.net) in 80 ms

www.yahoo.com. 60 IN CNAME new-fp-shed.wg1.b.yahoo.com.
wg1.b.yahoo.com. 172800 IN NS yf1.yahoo.com.
wg1.b.yahoo.com. 172800 IN NS yf4.a1.b.yahoo.net.
wg1.b.yahoo.com. 172800 IN NS yf2.yahoo.com.
wg1.b.yahoo.com. 172800 IN NS yf3.a1.b.yahoo.net.
;; Received 192 bytes from 98.138.11.157#53(ns4.yahoo.com) in 66 ms
```

## www.amazon.com:

```
<<>> DiG 9.10.3-P4-Debian <<>> www.amazon.com +trace
;; global options: +cmd

24741 IN NS a.root-servers.net.
24741 IN NS b.root-servers.net.
24741 IN NS c.root-servers.net.
24741 IN NS d.root-servers.net.
24741 IN NS e.root-servers.net.
24741 IN NS f.root-servers.net.
24741 IN NS g.root-servers.net.
24741 IN NS h.root-servers.net.
24741 IN NS i.root-servers.net.
24741 IN NS j.root-servers.net.
24741 IN NS k.root-servers.net.
24741 IN NS l.root-servers.net.
24741 IN NS m.root-servers.net.
24741 IN RRSIG NS 8 0 518400 20210320170000 20210307160000 42351 . ShUo5bLXVE0/4LbGQratRF1zeStF1
BjkepTZXasy83GqITN4Ud7TjY 9YVvqRicc8RaJYYPRSzXVlXJ4EBIemf1BL0yI1YgByUxc8WnmWq4t0HM VYh9CjfMAuqy1V34t0t+DmJu3MiVBVRdvsf1kvn311X
DqgtcLbruyC5 AUZX7y7HFPXpT5wjr6p+ARQ2UMB6wKf4JNFkg+2ldYpKQt5egth6bg AwMg9+opInxtvBvwhdZMJ107Kjg0ANst/OdzAEbKKXgeUyMEMP4dvH2 Ge
SVlRsSze8rFvuuyVIQZ7Q8me07NEax159jZM5cV/HKf8mqG50qyVZ auvHQg==
;; Received 525 bytes from 100.115.92.193#53(100.115.92.193) in 21 ms

com. 172800 IN NS a.gtld-servers.net.
com. 172800 IN NS b.gtld-servers.net.
com. 172800 IN NS c.gtld-servers.net.
com. 172800 IN NS d.gtld-servers.net.
com. 172800 IN NS e.gtld-servers.net.
com. 172800 IN NS f.gtld-servers.net.
com. 172800 IN NS g.gtld-servers.net.
com. 172800 IN NS h.gtld-servers.net.
com. 172800 IN NS i.gtld-servers.net.
com. 172800 IN NS j.gtld-servers.net.
com. 172800 IN NS k.gtld-servers.net.
com. 172800 IN NS l.gtld-servers.net.
com. 172800 IN NS m.gtld-servers.net.
com. 86400 IN DS 30909 8 2 E2D3C916F6DEEAC73294E8268FB5885044A833FC5459588F4A9184CF C41A5766
com. 86400 IN RRSIG DS 8 1 86400 20210320170000 20210307160000 42351 . UFvHR+2M7j1+z0AwTctGNMVTymHZ1m
mg6E9Eztw2aULdJRQySaEYfXg J4LYIpaI5ihgZWjKlAaWeGZB44trSPlenXfmiqhHJAFw/NnmUJz3EdK Vym3VzhJY3tZBtEnFRECCyCBV7829akTo3851HNEXv14
B1GQc4moy4 MuvTadQLA5eAv+Dws0z7sh/w4+v3J19pIGy36S8QxSKSHtGhX3PJ8KQ s4FSP13mVNm1fYgkogdZWQ4NpCEwSxoYjUjPCD92YXKu8oPe6Vs7J06 09T
60cSPpQEiauhUpnko5PElR+Ed5zKx1FLZyeu36IHg+8RC2d+gIrk6 uSBcYg==
```

```
amazon.com. 172800 IN NS pdns1.ultradns.net.
amazon.com. 172800 IN NS pdns6.ultradns.co.uk.
amazon.com. 172800 IN NS ns1.p31.dyndect.net.
amazon.com. 172800 IN NS ns3.p31.dyndect.net.
amazon.com. 172800 IN NS ns2.p31.dyndect.net.
amazon.com. 172800 IN NS ns4.p31.dyndect.net.
CK0PQJMG874JREF7EFN843QVIT8BSM.com. 86400 IN NSEC3 1 1 0 - CK0Q1G1N43M1ARRC90SM6QPQR81H5M9A NS SOA RRSIG DNSKEY NSEC3PARAM
CK0PQJMG874JREF7EFN843QVIT8BSM.com. 86400 IN RRSIG NSEC3 8 2 86400 20210313054023 20210306043023 58540 com. ML/ush0Hvdx0kdTHUz8
cgFeLwqTp92y/40XQp9G2IXMqHE/R9acR2Ll hj5SeuFMkSeKSt1fX0GtUrioEaHn9Pgp6nwonch12lTBeyFVBhPnoLnJ PX3NlF0jIz2sewK2YND9f8VKoqgs0v45UM
e8QyvjztpAGHSUF2knt3kf 8db2Pd9K4qCs10nkqyv7sx3WtWmNE+HTfyEnFqxqjbGKg==
K20LV67UEVSNEPKVAF6BLH7A0ATMA.com. 86400 IN NSEC3 1 1 0 - K20IDAGIUALSFGADN4DHE7N9Q0IROJ1 NS DS RRSIG
K20LV67UEVSNEPKVAF6BLH7A0ATMA.com. 86400 IN RRSIG NSEC3 8 2 86400 20210312860957 20210305045957 58540 com. YWIkmiYhmXoMgeLUP
b0pJEK+eCjIqUQ8R2p10Cm6d1f180VcL5 Tbbe+YQAR08WmWuqy9jG9Z0K7Uuay+1LFfe/HJHZQ8h9YjK3dZw/hn 0InbKucBX1uWw/f1X1AwV/NrHbBkFU023
bKw0tCG80trogj148da5 0CPNVUkpDXdSE8xvd26K0AVB1+ac3F0w/vkgexU6arVq0=
;; Received 741 bytes from 2001.503.eea3:30#53(g.gtld-servers.net) in 20 ms

www.amazon.com. 1800 IN CNAME tp.47cf2c8c9-frontier.amazon.com.
47cf2c8c9-frontier.amazon.com. 900 IN NS ns-1881.awsdns-43.co.uk.
47cf2c8c9-frontier.amazon.com. 900 IN NS ns-553.awsdns-05.net.
47cf2c8c9-frontier.amazon.com. 900 IN NS ns-477.awsdns-59.com.
47cf2c8c9-frontier.amazon.com. 900 IN NS ns-1484.awsdns-47.org.
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