

Welcome — 42apuchill

PROBLEMS TERMINAL ... 2: zsh + - ×

```
42cursus/01-netwhat/apuchill-ip_calc
► ipc 154.39.75.248 17
=====
• netwhat - IP calculator • by apuchill @42saopaulo

* Provided IP: 154.39.75.248
  10011010.00100111.01001011.11111000
* Provided Mask: 17 (CIDR)
  255.255.128.0
  11111111.11111111.10000000.00000000

* Host: 154.39.0.0 / 17
  10011010.00100111.00000000.00000000
* Host range: 154.39.0.1 – 154.39.127.254

* Max nbr of hosts: 32766 hosts
* Total addresses: 32768 addresses (including host and broadcast)
```

Netwhat

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What is the Network address of a host with an IP address of 154.39.75.248/17?

- 144.0.0.0
- 154.39.75.240
- 154.39.0.0
- 154.32.0.0
- 154.38.0.0
- 152.0.0.0
- 154.39.72.0
- 0.0.0.0
- 154.39.75.192

Next Question

```
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PROBLEMS TERMINAL ...
2: zsh
* Total addresses: 32768 addresses (including host and broadcast)

42cursus/01-netwhat/apuchill-ip_calc
► ipc 252.0.0.0

netwhat - IP calculator - by apuchill @42saopaulo
* Provided Mask: 6 (CIDR)
252.0.0.0
11111100.00000000.00000000.00000000

* Max nbr of hosts: 67108862 hosts
* Total addresses: 67108864 addresses (including host and broadcast)
```

Netwhat

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What is the maximum number of IP addresses that can be assigned to hosts on a local subnet that uses the 252.0.0.0 subnet mask?

- 134217730
- 134217724
- 33554434
- 134217728
- 33554432
- 67108864
- 33554430
- 67108860
- 67108862

Next Question

Code File Edit Selection View Go Debug Terminal Window Help

Sáb 16:29

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What is the maximum number of IP addresses that can be assigned to hosts on a local subnet that uses the 255.255.224.0 subnet mask?

- 4096
- 8190
- 8188
- 16380
- 16384
- 4092
- 4098

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```
* Max nbr of hosts: 67108862 hosts
* Total addresses: 67108864 addresses (including host and broadcast)

42cursus/01-netwhat/apuchill-ip_calc
► ipc 255.255.224.0

netwhat - IP calculator - by apuchill @42saopaulo

* Provided Mask: 19 (CIDR)
255.255.224.0
1111111.1111111.11100000.00000000

* Max nbr of hosts: 8190 hosts
* Total addresses: 8192 addresses (including host and broadcast)
```

master 0 △ 0

The image shows a macOS desktop interface with several open windows:

- Top Bar:** Shows the Apple logo, menu items like Code, File, Edit, Selection, View, Go, Debug, Terminal, Window, Help, and system status including signal strength, battery, and date (Sáb 16:29).
- VS Code Terminal:** A dark-themed terminal window titled "Welcome — 42apuchill". It displays the command "42cursus/01-netwhat/apuchill-ip\_calc" and its output, which includes:
  - \* Provided IP: 180.143.132.202
  - \* Provided Mask: 15 (CIDR)
  - \* Host: 180.142.0.0 / 15
  - \* Host range: 180.142.0.1 – 180.143.255.254
  - \* Max nbr of hosts: 131070 hosts
  - \* Total addresses: 131072 addresses (including host and broadcast)
- Netwhat Browser Window:** A browser window titled "Netwhat" with the URL "netwhat.42.fr/correct". The page content is:

You have an interface on a router with the IP address of 180.143.132.202/15. Including the router interface, how many hosts can have IP addresses on the LAN attached to the router interface?

Radio buttons for the answer choices:

  - 262142
  - 131068
  - 131072
  - 65534
  - 65530
  - 262146
  - 262138
  - 131066
  - 131070

A blue button at the bottom right says "Next Question".

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```
42cursus/01-netwhat/apuchill-ip_calc
► ipc 180.143.132.202 15
===== • netwhat - IP calculator • =====
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* Provided IP: 180.143.132.202
  10110100.10001111.10000100.11001010
* Provided Mask: 15 (CIDR)
  255.254.0.0
  11111111.11111110.00000000.00000000

* Host: 180.142.0.0 / 15
  10110100.10001110.00000000.00000000
* Host range: 180.142.0.1 – 180.143.255.254

* Max nbr of hosts: 131070 hosts
* Total addresses: 131072 addresses (including host and broadcast)
```

The \_\_\_\_\_ translates internet domain and host names to IP address

- network time protocol
- routing information protocol
- internet relay chat
- domain name system

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PROBLEMS TERMINAL ... 2: zsh + - ×

```
42cursus/01-netwhat/apuchill-ip_calc
► ipc 167.46.237.36 25
===== • netwhat - IP calculator • =====
by apuchill @42saopaulo

* Provided IP: 167.46.237.36
  10100111.00101110.11101101.00100100
* Provided Mask: 25 (CIDR)
  255.255.255.128
  11111111.11111111.11111111.10000000

* Host: 167.46.237.0 / 25
  10100111.00101110.11101101.00000000
* Host range: 167.46.237.1 – 167.46.237.126

* Max nbr of hosts: 126 hosts
* Total addresses: 128 addresses (including host and broadcast)
```

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What is the Network address of a host with an IP address of 167.46.237.36/25?

- 167.44.0.0
- 167.46.232.0
- 128.0.0.0
- 167.46.237.36
- 0.0.0.0
- 167.46.192.0
- 166.0.0.0
- 167.32.0.0
- 167.46.237.0

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```
42cursus/01-netwhat/apuchill-ip_calc
► ipc 167.46.237.36 25
=====
* Provided IP: 167.46.237.36
  10100111.00101110.11101101.00100100
* Provided Mask: 25 (CIDR)
  255.255.255.128
  11111111.11111111.11111111.10000000

* Host: 167.46.237.0 / 25
  10100111.00101110.11101101.00000000
* Host range: 167.46.237.1 - 167.46.237.126

* Max nbr of hosts: 126 hosts
* Total addresses: 128 addresses (including host and broadcast)
```

Which of the following is private IP address?

- 110.189.203.167
- 114.206.106.79
- 178.235.145.90
- 10.14.142.224

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```
PROBLEMS 42cursus/01-netwhat/apuchill-ip_calc
► ipcalc 41.159.48.253 15
===== • netwhat - IP calculator • =====
by apuchill @42saopaulo

* Provided IP: 41.159.48.253
  00101001.10011110.00110000.11111101
* Provided Mask: 15 (CIDR)
  255.254.0.0
  11111111.11111110.00000000.00000000

* Host: 41.158.0.0 / 15
  00101001.10011110.00000000.00000000
* Host range: 41.158.0.1 – 41.159.255.254

* Max nbr of hosts: 131070 hosts
* Total addresses: 131072 addresses (including host and broadcast)
```

What is the Network address of a host with an IP address of 41.159.48.253/15?

- 40.0.0.0
- 41.144.0.0
- 41.159.0.0
- 41.159.48.128
- 41.158.0.0
- 41.128.0.0
- 41.159.32.0
- 32.0.0.0

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TERMINAL ... 2: zsh

```
* Max nbr of hosts: 131070 hosts
* Total addresses: 131072 addresses (including host and broadcast)

42cursus/01-netwhat/apuchill-ip_calc
► ipc 255.255.254.0

===== • netwhat - IP calculator • =====
by apuchill @42saopaulo

* Provided Mask: 23 (CIDR)
255.255.254.0
1111111.1111111.1111110.0000000

* Max nbr of hosts: 510 hosts
* Total addresses: 512 addresses (including host and broadcast)
```

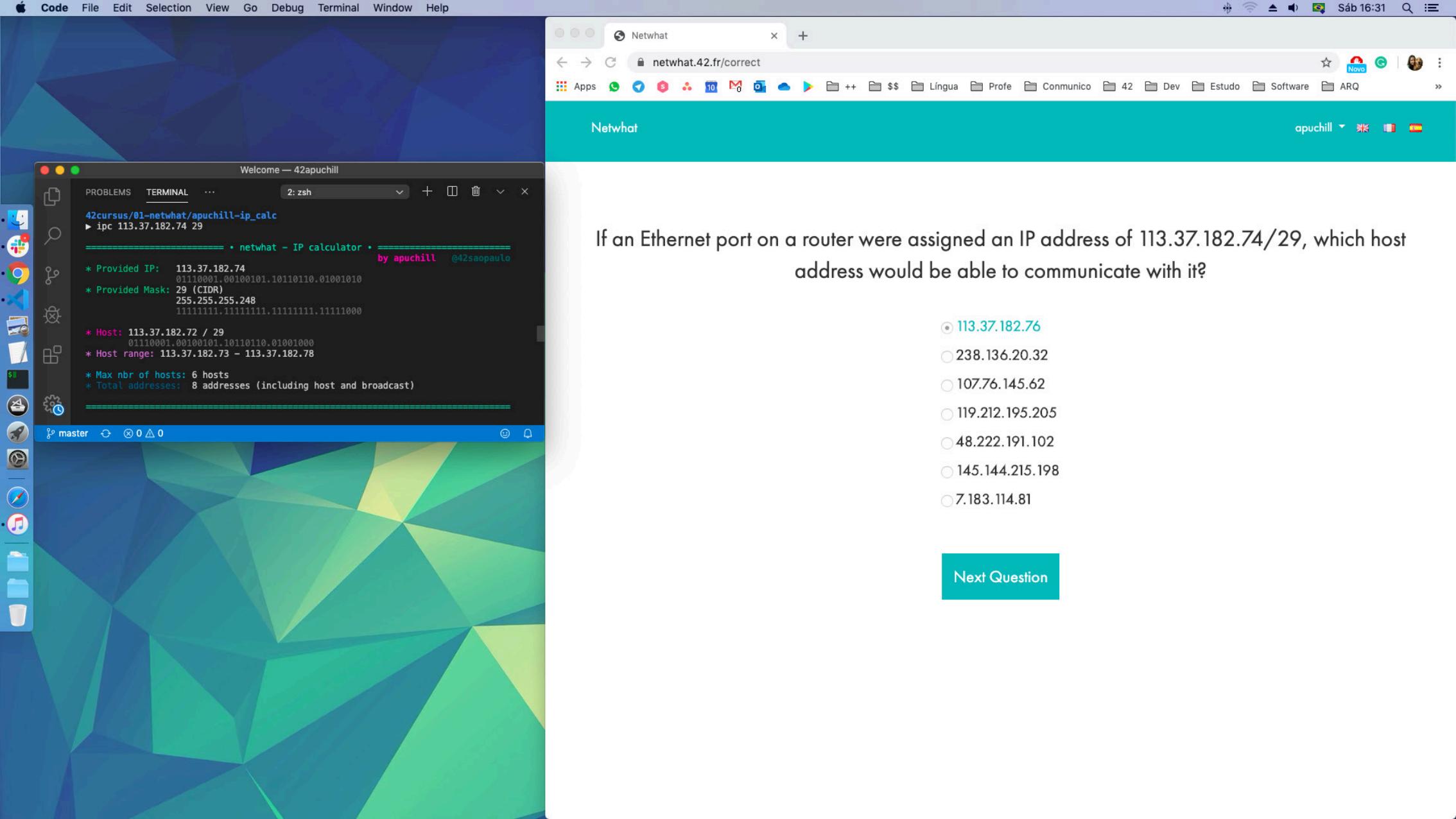
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What is the maximum number of IP addresses that can be assigned to hosts on a local subnet that uses the 255.255.254.0 subnet mask?

258  
 1022  
 1024  
 510  
 514  
 508  
 1018

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PROBLEMS TERMINAL ... 2: zsh + - ×

```
42cursus/01-netwhat/apuchill-ip_calc
► ipc 113.37.182.74 29

===== • netwhat - IP calculator • ===== by apuchill @42saopaulo

* Provided IP: 113.37.182.74
  01110001.00100101.10110110.01001010
* Provided Mask: 29 (CIDR)
  255.255.255.248
  11111111.11111111.11111111.11111000

* Host: 113.37.182.72 / 29
  01110001.00100101.10110110.01001000
* Host range: 113.37.182.73 – 113.37.182.78

* Max nbr of hosts: 6 hosts
* Total addresses: 8 addresses (including host and broadcast)
```

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If an Ethernet port on a router were assigned an IP address of 113.37.182.74/29, which host address would be able to communicate with it?

- 113.37.182.76
- 238.136.20.32
- 107.76.145.62
- 119.212.195.205
- 48.222.191.102
- 145.144.215.198
- 7.183.114.81

Next Question

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PROBLEMS TERMINAL ... 2: zsh

```
42cursus/01-netwhat/apuchill-ip_calc
▶ ipc 113.37.182.74 29

===== • netwhat - IP calculator • ===== by apuchill @42saopaulo

* Provided IP: 113.37.182.74
  01110001.00100101.10110110.01001010
* Provided Mask: 29 (CIDR)
  255.255.255.248
  11111111.11111111.11111111.11111000

* Host: 113.37.182.72 / 29
  01110001.00100101.10110110.01001000
* Host range: 113.37.182.73 – 113.37.182.78

* Max nbr of hosts: 6 hosts
* Total addresses: 8 addresses (including host and broadcast)
```

Which of the following is private IP address?

- 100.52.111.157
- 62.152.37.166
- 20.126.16.160
- 34.61.228.120
- 172.28.199.241
- 100.161.128.59

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```
42cursus/01-netwhat/apuchill-ip_calc
► ipc 113.37.182.74 29

===== • netwhat - IP calculator • ===== by apuchill @42saopaulo

* Provided IP: 113.37.182.74
  01110001.00100101.10110110.01001010
* Provided Mask: 29 (CIDR)
  255.255.255.248
  11111111.11111111.11111111.11111000

* Host: 113.37.182.72 / 29
  01110001.00100101.10110110.01001000
* Host range: 113.37.182.73 – 113.37.182.78

* Max nbr of hosts: 6 hosts
* Total addresses: 8 addresses (including host and broadcast)
```

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How long is an IPv6 address?

32 bits

64 bits

128 bytes

128 bits

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PROBLEMS TERMINAL ... 2: zsh

```
42cursus/01-netwhat/apuchill-ip_calc
► ipc 113.37.182.74 29

===== • netwhat - IP calculator • ===== by apuchill @42saopaulo

* Provided IP: 113.37.182.74
  01110001.00100101.10110110.01001010
* Provided Mask: 29 (CIDR)
  255.255.255.248
  11111111.11111111.11111111.11111000

* Host: 113.37.182.72 / 29
  01110001.00100101.10110110.01001000
* Host range: 113.37.182.73 – 113.37.182.78

* Max nbr of hosts: 6 hosts
* Total addresses: 8 addresses (including host and broadcast)
```

Which of this is not true?

- There is no sequencing of data in UDP. If ordering is required, it has to be managed by the application layer
- UDP is faster, simpler and more efficient than TCP
- UDP has only the basic error checking mechanism using checksums
- UDP is a connection-oriented protocol**
- UDP supports Broadcasting
- The delivery of data to the destination cannot be guaranteed in UDP

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TERMINAL ... 2: zsh

```
* Max nbr of hosts: 6 hosts
* Total addresses: 8 addresses (including host and broadcast)
```

---

```
42cursus/01-netwhat/apuchill-ip_calc
▶ ipc 255.224.0.0
```

---

```
• netwhat - IP calculator • by apuchill @42saopaulo
```

```
* Provided Mask: 11 (CIDR)
255.224.0.0
11111111.11100000.00000000.00000000
```

---

```
* Max nbr of hosts: 2097150 hosts
* Total addresses: 2097152 addresses (including host and broadcast)
```

---

master ⌂ 0 △ 0

Netwhat

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What is the maximum number of IP addresses that can be assigned to hosts on a local subnet that uses the 255.224.0.0 subnet mask?

4194298  
 2097148  
 4194306  
 2097152  
 2097150  
 2097146  
 1048570  
 1048578

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TERMINAL 2: zsh

```
* Max nbr of hosts: 6 hosts
* Total addresses: 8 addresses (including host and broadcast)
```

---

```
42cursus/01-netwhat/apuchill-ip_calc
▶ ipc 255.224.0.0
```

---

```
• netwhat - IP calculator • by apuchill @42saopaulo
* Provided Mask: 11 (CIDR)
  255.224.0.0
  1111111.1110000.0000000.0000000
```

---

```
* Max nbr of hosts: 2097150 hosts
* Total addresses: 2097152 addresses (including host and broadcast)
```

---

master ① 0 △ 0

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Which of this is not true?

- TCP provides extensive error checking mechanisms. It is because it provides flow control and acknowledgment of data
- Sequencing of data is a feature of TCP (this means that packets arrive in-order at the receiver)
- TCP is comparatively slower than UDP
- TCP supports Broadcasting
- TCP is a connection-oriented protocol
- TCP is reliable as it guarantees delivery of data to the destination router

Next Question



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PROBLEMS TERMINAL ... 2: zsh + - ×

```
* Max nbr of hosts: 6 hosts
* Total addresses: 8 addresses (including host and broadcast)
```

---

```
42cursus/01-netwhat/apuchill-ip_calc
▶ ipc 255.224.0.0
```

---

```
• netwhat - IP calculator • by apuchill @42saopaulo
```

```
* Provided Mask: 11 (CIDR)
255.224.0.0
1111111.11100000.00000000.00000000
```

---

```
* Max nbr of hosts: 2097150 hosts
* Total addresses: 2097152 addresses (including host and broadcast)
```

---

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Which of this is not a class of IP address?

Class F

Class E

Class C

Class D

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TERMINAL 2: zsh

```
42cursus/01-netwhat/apuchill-ip_calc
► ipc 214.175.204.146 16

===== • netwhat - IP calculator • =====
by apuchill @42saopaulo

* Provided IP: 214.175.204.146
  11010110.10101111.11001100.10010010
* Provided Mask: 16 (CIDR)
  255.255.0.0
  11111111.11111111.00000000.00000000

* Host: 214.175.0.0 / 16
  11010110.10101111.00000000.00000000
* Host range: 214.175.0.1 – 214.175.255.254

* Max nbr of hosts: 65534 hosts
* Total addresses: 65536 addresses (including host and broadcast)
```

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Which of the following is the valid host range for the subnet on which the IP address 214.175.204.146/16 resides?

- 214.174.255.253-214.175.255.251
- 214.175.0.1-214.175.255.253
- 214.175.0.4-214.175.255.255
- 214.175.0.1-214.175.255.254

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PROBLEMS TERMINAL ... 2: zsh + - ×

```
42cursus/01-netwhat/apuchill-ip_calc
▶ ipc 52.136.59.71 15

===== • netwhat - IP calculator • ===== by apuchill @42saopaulo

* Provided IP: 52.136.59.71
  00110100.10001000.00111011.01000111
* Provided Mask: 15 (CIDR)
  255.254.0.0
  11111111.11111110.00000000.00000000

* Host: 52.136.0.0 / 15
  00110100.10001000.00000000.00000000
* Host range: 52.136.0.1 – 52.137.255.254

* Max nbr of hosts: 131070 hosts
* Total addresses: 131072 addresses (including host and broadcast)
```

Netwhat

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Which of the following is the valid host range for the subnet on which the IP address 52.136.59.71/15 resides?

- 52.136.0.1-52.137.255.254
- 52.136.0.5-52.138.0.1
- 52.135.255.252-52.137.255.253
- 52.135.255.255-52.137.255.254
- 52.136.0.0-52.137.255.254

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PROBLEMS TERMINAL ... 2: zsh + - ×

```
42cursus/01-netwhat/apuchill-ip_calc
► ipc 126.124.245.121 21
===== • netwhat - IP calculator • =====
by apuchill @42saopaulo

* Provided IP: 126.124.245.121
  01111110.01111100.11110101.01111001
* Provided Mask: 21 (CIDR)
  255.255.248.0
  11111111.11111111.11111000.00000000

* Host: 126.124.240.0 / 21
  01111110.01111100.11110000.00000000
* Host range: 126.124.240.1 – 126.124.247.254

* Max nbr of hosts: 2046 hosts
* Total addresses: 2048 addresses (including host and broadcast)
```

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If an Ethernet port on a router were assigned an IP address of 126.124.245.121/21, which host address would be able to communicate with it?

- 55.223.131.212
- 112.69.61.223
- 239.1.29.157
- 126.124.244.182
- 176.201.155.217
- 152.211.221.35
- 103.107.215.119
- 73.56.105.10

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PROBLEMS TERMINAL ... 2: zsh + - ×

```
42cursus/01-netwhat/apuchill-ip_calc
► ipcalc 26.220.64.184 27

===== • netwhat - IP calculator • =====
by apuchill @42saopaulo

* Provided IP: 26.220.64.184
  00011010.11011100.01000000.10111000
* Provided Mask: 27 (CIDR)
  255.255.255.224
  11111111.11111111.11111111.11100000

* Host: 26.220.64.160 / 27
  00011010.11011100.01000000.10100000
* Host range: 26.220.64.161 – 26.220.64.190

* Max nbr of hosts: 30 hosts
* Total addresses: 32 addresses (including host and broadcast)
```

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If an Ethernet port on a router were assigned an IP address of 26.220.64.184/27, which host address would be able to communicate with it?

- 118.70.208.150
- 232.59.242.117
- 62.52.205.23
- 212.87.169.91
- 26.220.64.184
- 35.107.165.230
- 159.101.192.73
- 116.195.187.81

Done