



nic.br

Núcleo de Informação
e Coordenação do
Ponto BR

cgib.br


Comitê Gestor da
Internet no Brasil



registro.br cert.br cetic.br ceptro.br ceweb.br ix.br

nic.br egi.br

ceptro.br

The background of the slide is a dark gray circuit board pattern with white lines representing traces and components. The top and bottom sections of the slide feature this pattern, while the middle section is a solid light gray gradient.

Curso BCOP

Exercícios:

Plano de endereçamento

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1) Divida o prefixo IPv4 192.0.160.0/22 nos seguintes prefixos:

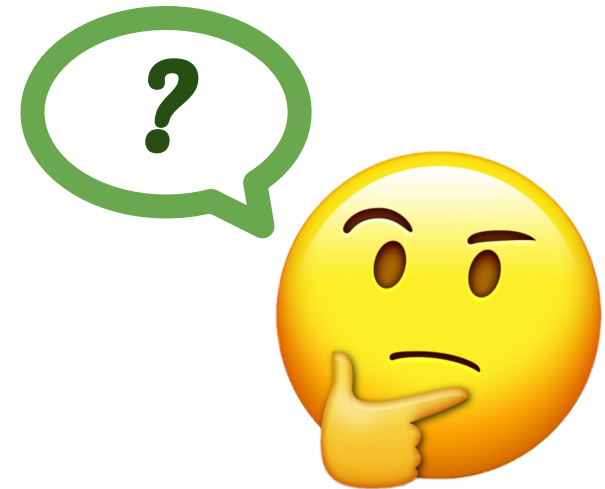
Ex: - /23

192.0.160.0/23

192.0.162.0/23

- /24

- /25



1) Exemplo: dividir o 192.0.160.0/22 em /23?

192.0.160.0/22

Posição Bit	17	18	19	20	21	22	23	24
Bits	<u>1</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Valor	128	64	32	16	8	4	2	1
							0	0 -> 160
							1	0 -> 162

23 bits - 22 bits = 1 bit
 $2^1 = 2$ redes

Resposta:
192.0.160.0/23
192.0.162.0/23

1) Como dividir o 192.0.160.0/22 em /24?

192.0.160.0/22

Posição Bit	17	18	19	20	21	22	23	24	
Bits	<u>1</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	
Valor	128	64	32	16	8	4	2	1	
							0	0	-> 160
							0	1	-> 161
							1	0	-> 162
							1	1	-> 163

24 bits - 22 bits = 2 bit
 $2^2 = 4$ redes

Resposta:

192.0.160.0/24

192.0.161.0/24

192.0.162.0/24

192.0.163.0/24

1) Como dividir o 192.0.160.0/22 em /25?

192.0.160.0/22

Posição Bit	17	18	19	20	21	22	23	24	25
Bits	<u>1</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Valor	128	64	32	16	8	4	2	1	128
							0	0	0
							0	0	1
							0	1	0
							0	1	1
							1	0	0
							1	0	1
							1	1	0
							1	1	1

25 bits - 22 bits = 3 bit

$2^3 = 8$ redes

Resposta:

192.0.160.0/25	192.0.160.128/25
192.0.161.0/25	192.0.161.128/25
192.0.162.0/25	192.0.162.128/25
192.0.163.0/25	192.0.163.128/25

2) Divida o prefixo IPv6 2001:DB8:FACA::/48
nos seguintes tamanhos:

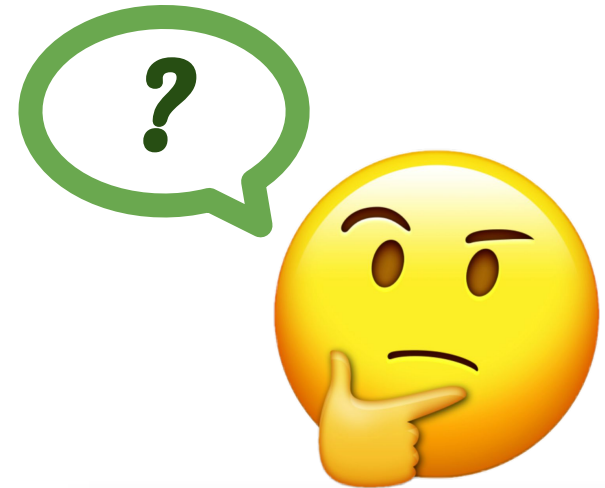
Ex: - /49

2001:DB8:FACA:0000::/49

2001:DB8:FACA:8000::/49

- /50

- /51



2) Exemplo: dividir o 2001:DB8:FACA::/48 em /49?

2001:0DB8:FACA:0000::/48

Posição Bit	45	46	47	48	49	50	51	52
Bits	<u>1</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Valor	8	4	2	1	8	4	2	1
	A					0		

49 bits - 48 bits = 1 bit

$2^1 = 2$ redes

Resposta:

2001:DB8:FACA:0000::/49

2001:DB8:FACA:8000::/49

2) Como dividir o 2001:DB8:FACA::/48 em /50?

2001:0DB8:FACA:0000::/48

Posição Bit	45	46	47	48	49	50	51	52
Bits	<u>1</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Valor	8	4	2	1	8	4	2	1
					0	0	->	0
					0	1	->	4
					1	0	->	8
					1	1	->	C

50 bits - 48 bits = 2 bit

$2^2 = 4$ redes

Resposta:

2001:DB8:FACA:0000::/50

2001:DB8:FACA:4000::/50

2001:DB8:FACA:8000::/50

2001:DB8:FACA:C000::/50

2) Como dividir o 2001:DB8:FACA::/48 em /51?

2001:0DB8:FACA:0000::/48

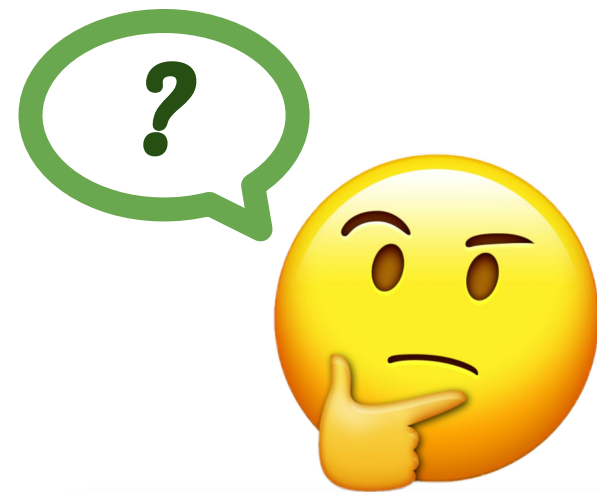
Posição Bit	45	46	47	48	49	50	51	52
Bits	<u>1</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Valor	8	4	2	1	8	4	2	1

51 bits - 48 bits = 3 bit
 $2^3 = 8$ redes

Resp: 2001:DB8:FACA:0000::/51
2001:DB8:FACA:2000::/51
2001:DB8:FACA:4000::/51
2001:DB8:FACA:6000::/51
2001:DB8:FACA:8000::/51
2001:DB8:FACA:A000::/51
2001:DB8:FACA:C000::/51
2001:DB8:FACA:E000::/51

0	0	0	->	0
0	0	1	->	2
0	1	0	->	4
0	1	1	->	6
1	0	0	->	8
1	0	1	->	A
1	1	0	->	C
1	1	1	->	E

- 3) Quais endereços pertencem a rede 192.134.160.0/19?
- a) 192.134.32.13
 - b) 192.134.165.0
 - c) 192.134.192.24
 - d) 192.134.224.47
 - e) 192.143.160.92
 - f) 129.134.160.156
 - g) 192.134.161.212
 - h) 192.134.176.122
 - i) 192.134.159.255
 - j) 192.134.240.19
 - k) 192.134.128.55
 - l) 192.134.160.275
 - m) 192.134.161.0



3) Quais endereços pertencem a rede 192.134.160.0/19?

192.134.160.0/19

Posição Bit	17	18	19	20	21	22	23	24
Bits	<u>1</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Valor	128	64	32	16	8	4	2	1

160

Qual o primeiro e o último endereço da rede?

3) Quais endereços pertencem a rede 192.134.160.0/19?

192.134.160.0/19

Posição Bit	17	18	19	20	21	22	23	24
Bits	<u>1</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Valor	128	64	32	16	8	4	2	1

160

Qual o primeiro e o último endereço da rede?

Primeiro endereço: 192.134.160.0

3) Quais endereços pertencem a rede 192.134.160.0/19?

192.134.160.0/19

Posição Bit	17	18	19	20	21	22	23	24
Bits	<u>1</u>	<u>0</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
Valor	128	64	32	16	8	4	2	1

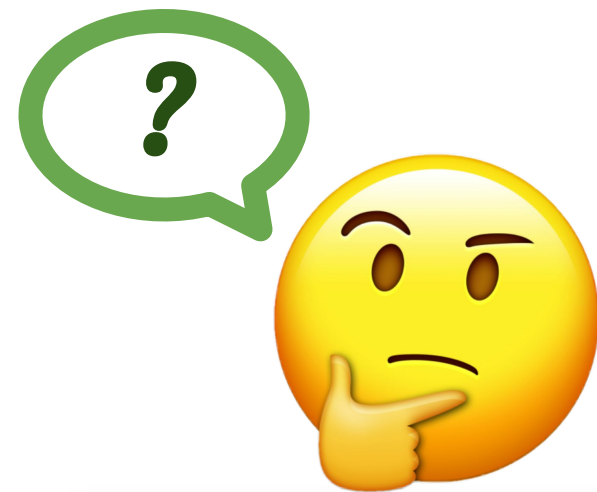
191

Qual o primeiro e o último endereço da rede?

Primeiro endereço: 192.134.160.0

Último endereço: 192.134.191.255

- 3) Quais endereços pertencem a rede 192.134.160.0/19?
- a) 192.134.32.13
 - b) 192.134.165.0
 - c) 192.134.192.24
 - d) 192.134.224.47
 - e) 192.143.160.92
 - f) 129.134.160.156
 - g) 192.134.161.212
 - h) 192.134.176.122
 - i) 192.134.159.255
 - j) 192.134.240.19
 - k) 192.134.128.55
 - l) 192.134.160.275
 - m) 192.134.161.0



3) Quais endereços pertencem a rede 192.134.160.0/19?

a) **192.134.32.13**

b) 192.134.165.0

c) 192.134.192.24

d) 192.134.224.47

e) 192.143.160.92

f) 129.134.160.156

g) 192.134.161.212

h) 192.134.176.122

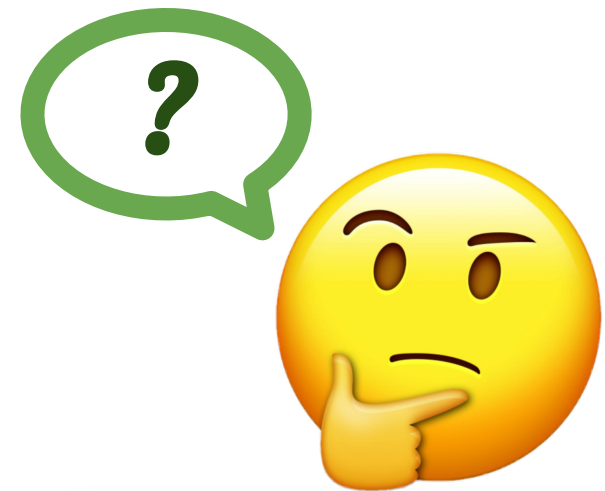
i) 192.134.159.255

j) 192.134.240.19

k) 192.134.128.55

l) 192.134.160.275

m) 192.134.161.0



3) Quais endereços pertencem a rede 192.134.160.0/19?

a) **192.134.32.13**

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d) 192.134.224.47

e) 192.143.160.92

f) 129.134.160.156

g) 192.134.161.212

h) 192.134.176.122

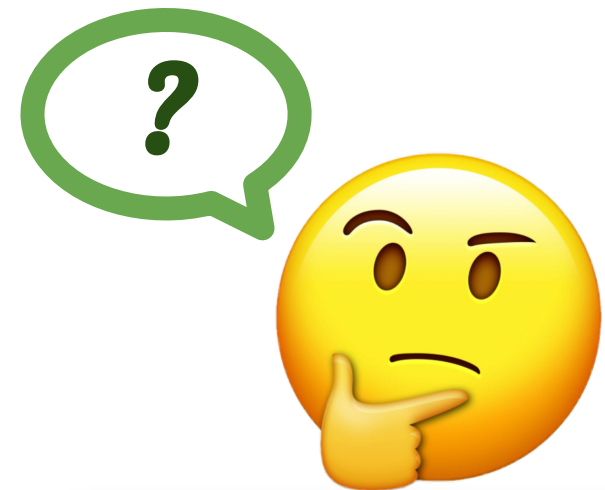
i) 192.134.159.255

j) 192.134.240.19

k) 192.134.128.55

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m) 192.134.161.0



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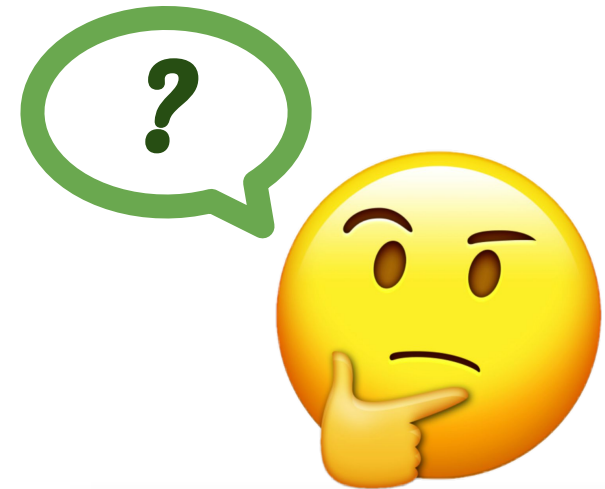
i) 192.134.159.255

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m) 192.134.161.0



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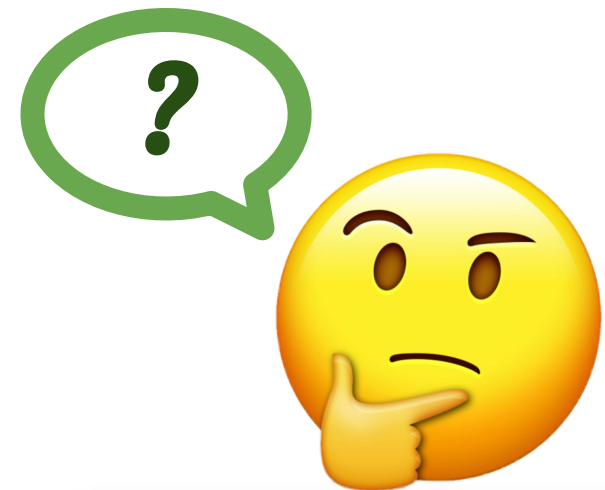
i) 192.134.159.255

j) 192.134.240.19

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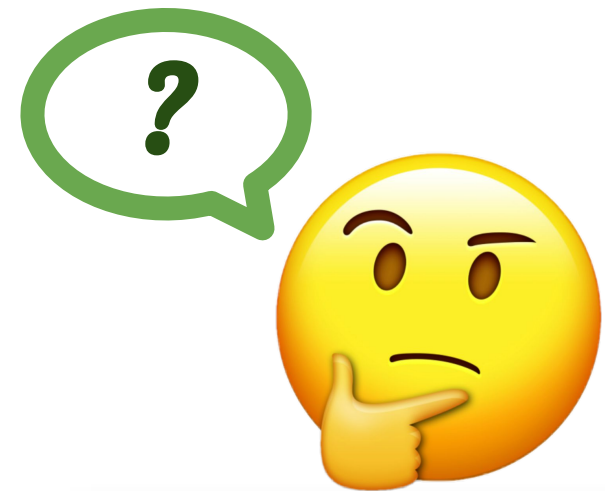
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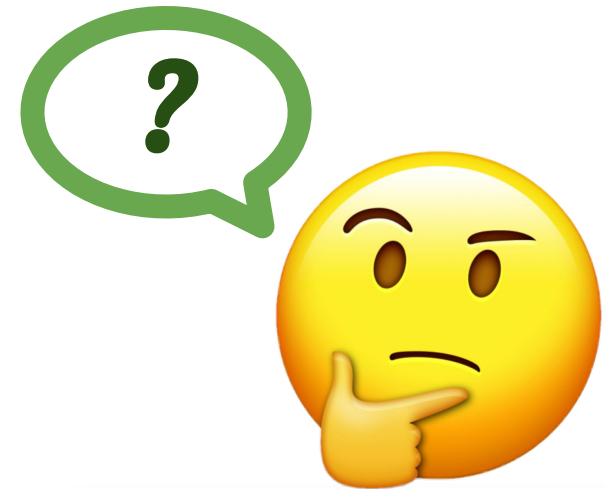
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g) **192.134.161.212**

h) 192.134.176.122

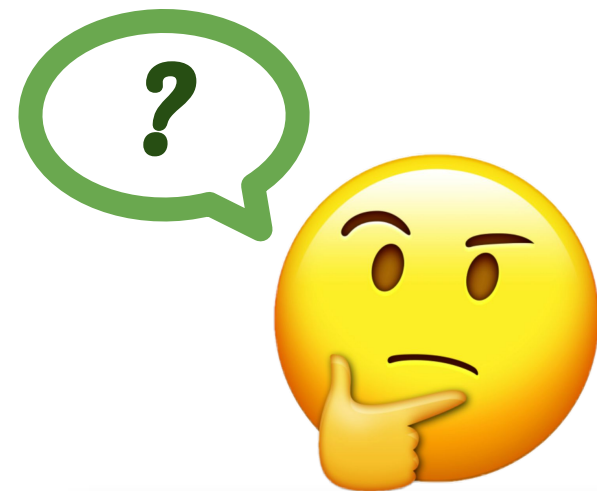
i) 192.134.159.255

j) 192.134.240.19

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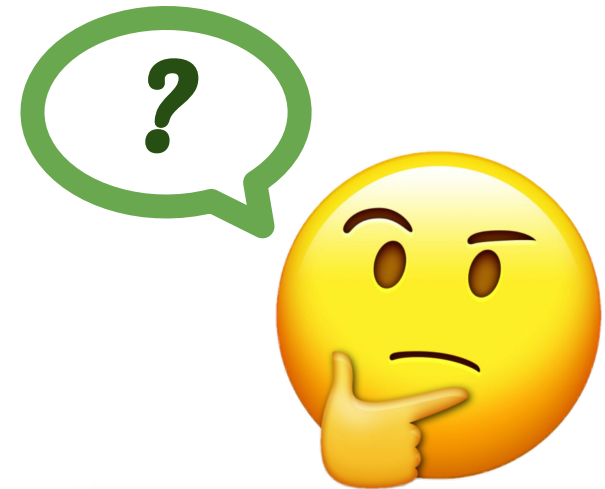
i) 192.134.159.255

j) 192.134.240.19

k) 192.134.128.55

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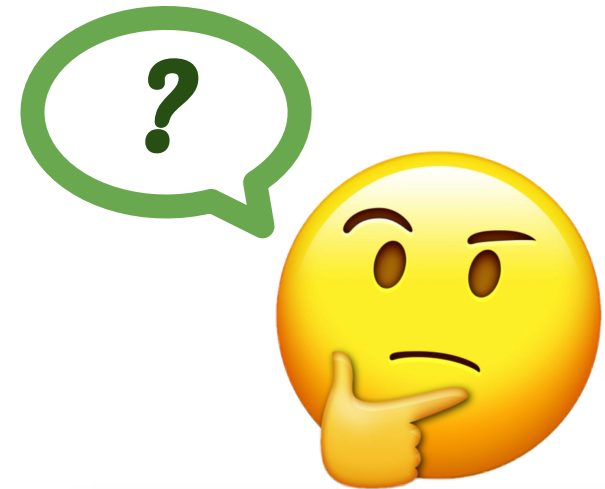
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g) **192.134.161.212**

h) **192.134.176.122**

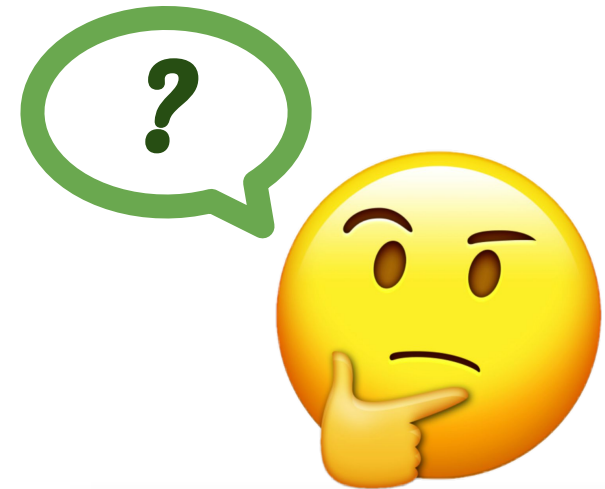
i) **192.134.159.255**

j) **192.134.240.19**

k) 192.134.128.55

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c) **192.134.192.24**

d) **192.134.224.47**

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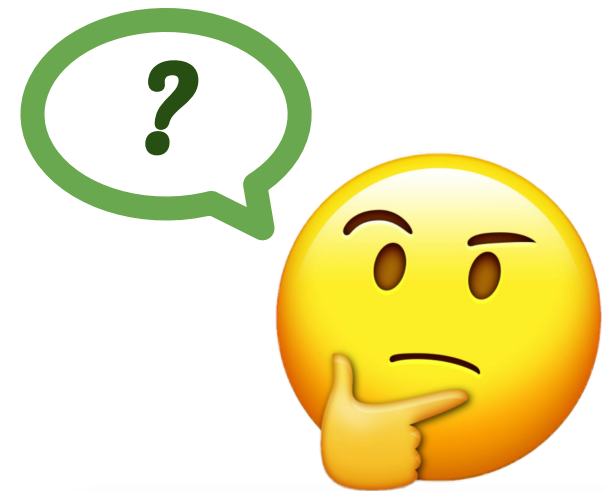
i) **192.134.159.255**

j) **192.134.240.19**

k) **192.134.128.55**

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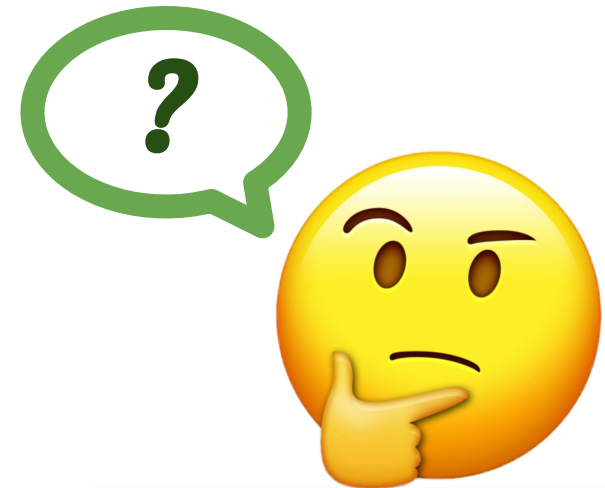
i) **192.134.159.255**

j) **192.134.240.19**

k) **192.134.128.55**

l) **192.134.160.275**

m) **192.134.161.0**

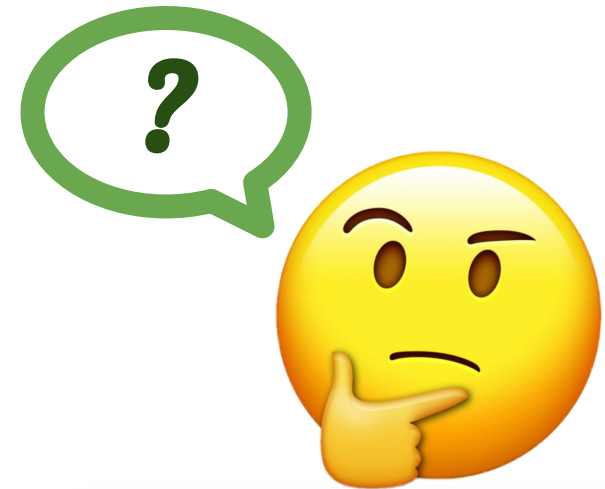


3) Quais endereços pertencem a rede 192.134.160.0/19?

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- b) **192.134.165.0**
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- h) **192.134.176.122**
- i) **192.134.159.255**
- j) **192.134.240.19**
- k) **192.134.128.55**
- l) **192.134.160.275**
- m) **192.134.161.0**



- 4) Quais endereços pertencem a rede 2001:db8:c800::/38?
- a) 2001:0db8:c810:0012:0034:0101:0000:1
 - b) 2001:db8:c810:12:34:101::1
 - c) 2001:db8:c8::1
 - d) 2001:db8:c800::1
 - e) 2001:db8:c710:12:34:101::1
 - f) 2001:db8:cc00::1
 - g) 2001:db8:ca10:12:34:101::1
 - h) 2001:db8:c815:12:34:101::1
 - i) 2001:db8:c910:12:34:101::1
 - j) 2001:db8:cbff:12:34:101::1
 - k) 2001:db8:b810:12:34:101::1
 - l) 2001:db9:c810:1:2:3::4
 - m) 2001:db8:cfad::1



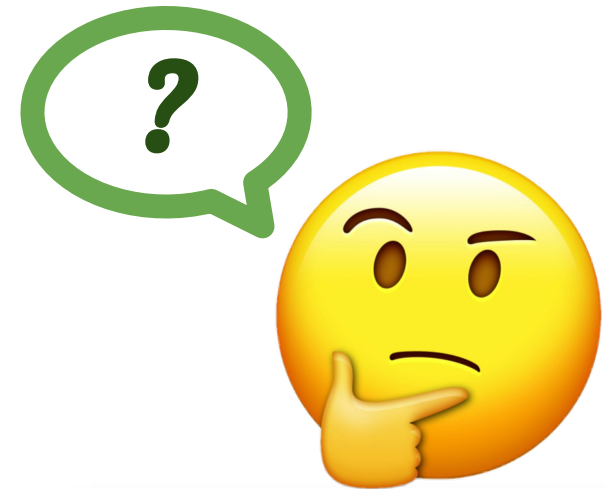
4) Quais endereços pertencem a rede 2001:db8:c800::/38?

2001:db8:c800::/38

Posição Bit	33	34	35	36	37	38	39	40	41	42	43	44
Bits	<u>1</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Valor	8	4	2	1	8	4	2	1	8	4	2	1
	C				8				0			

Qual o primeiro e o último endereço da rede?

- 4) Quais endereços pertencem a rede 2001:db8:c800::/38?
- a) 2001:0db8:c810:0012:0034:0101:0000:1
 - b) 2001:db8:c810:12:34:101::1
 - c) 2001:db8:c8::1
 - d) 2001:db8:c800::1
 - e) 2001:db8:c710:12:34:101::1
 - f) 2001:db8:cc00::1
 - g) 2001:db8:ca10:12:34:101::1
 - h) 2001:db8:c815:12:34:101::1
 - i) 2001:db8:c910:12:34:101::1
 - j) 2001:db8:cbff:12:34:101::1
 - k) 2001:db8:b810:12:34:101::1
 - l) 2001:db9:c810:1:2:3::4
 - m) 2001:db8:cfad::1



4) Quais endereços pertencem a rede 2001:db8:c800::/38?

a) **2001:0db8:c810:0012:0034:0101:0000:1**

b) 2001:db8:c810:12:34:101::1

c) 2001:db8:c8::1

d) 2001:db8:c800::1

e) 2001:db8:c710:12:34:101::1

f) 2001:db8:cc00::1

g) 2001:db8:ca10:12:34:101::1

h) 2001:db8:c815:12:34:101::1

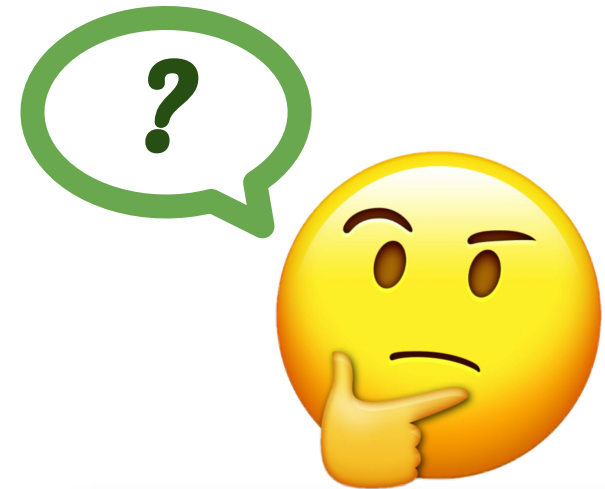
i) 2001:db8:c910:12:34:101::1

j) 2001:db8:cbff:12:34:101::1

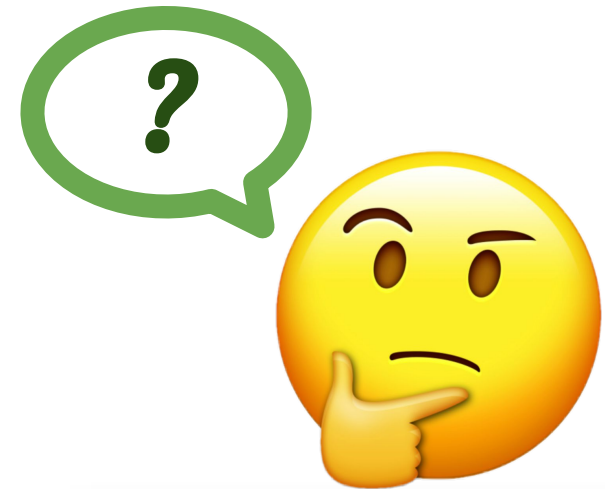
k) 2001:db8:b810:12:34:101::1

l) 2001:db9:c810:1:2:3::4

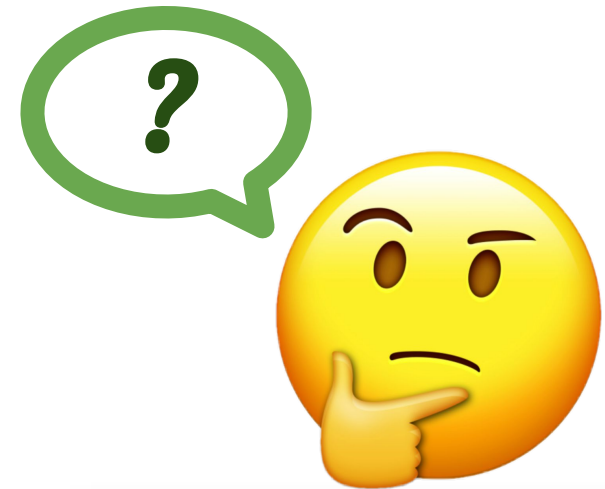
m) 2001:db8:cfad::1



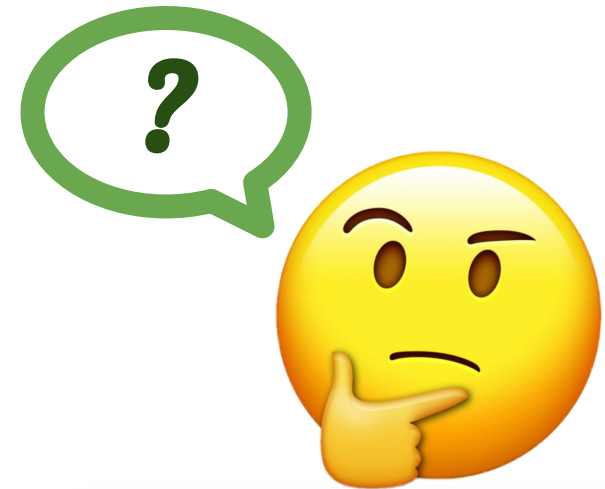
- 4) Quais endereços pertencem a rede 2001:db8:c800::/38?
- a) **2001:0db8:c810:0012:0034:0101:0000:1**
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 - c) 2001:db8:c8::1
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 - m) 2001:db8:cfad::1



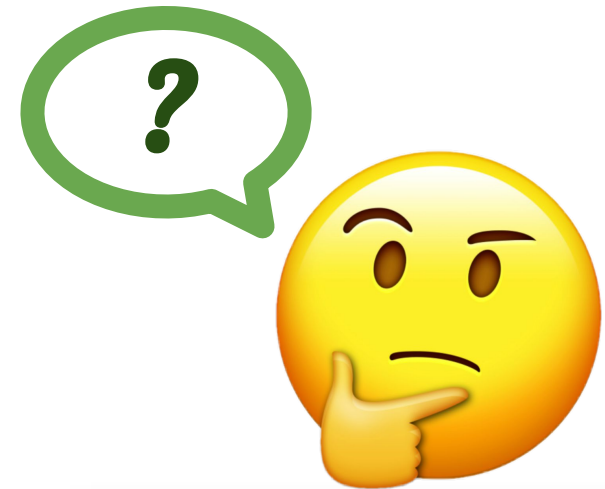
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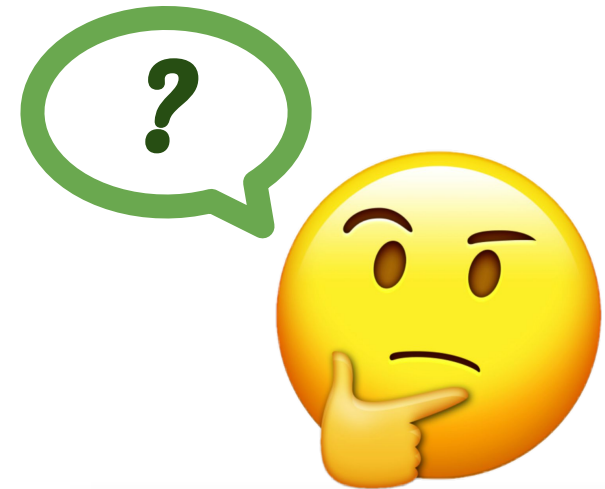
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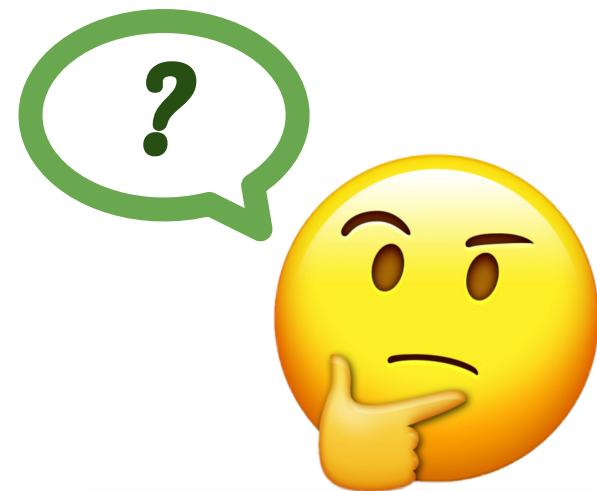
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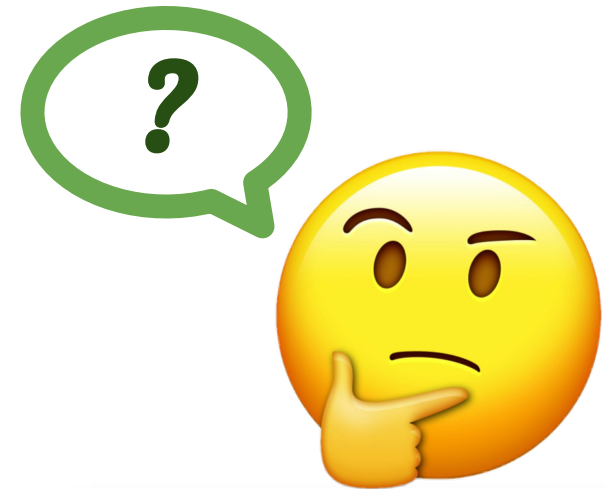
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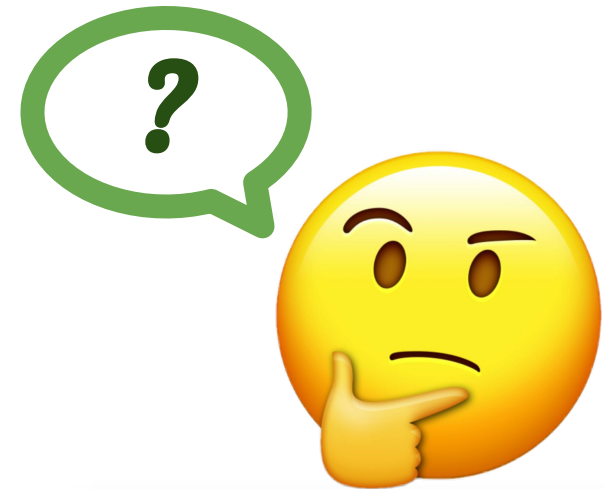
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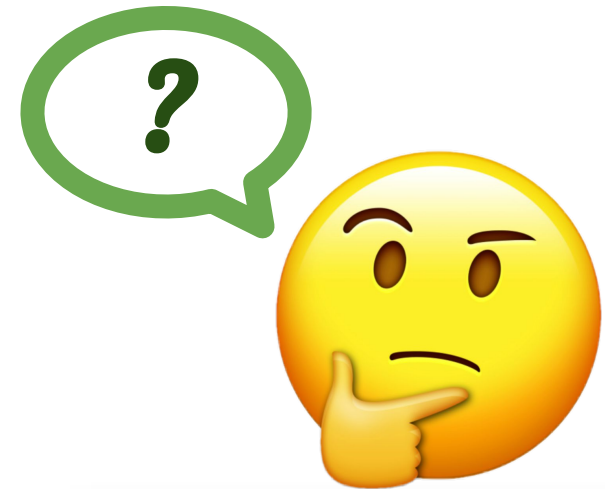
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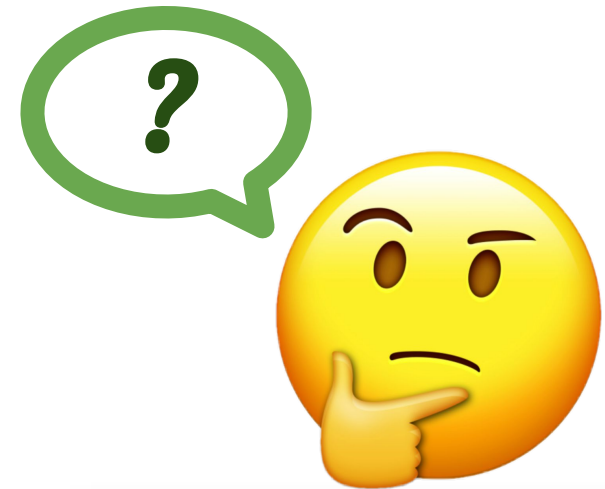
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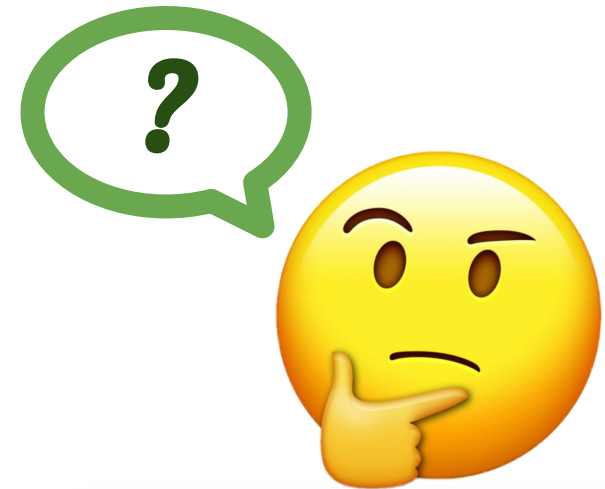
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