1. Place the following in the given table. Hint: entries in the **Layer** column should follow the OSI model.

1. ~~1’s and 0’s~~

2. ~~Host to host~~

3. ~~Network~~

4. ~~HTTP~~

5. ~~Transport~~

6. ~~Application~~

7. ~~MAC~~

8. ~~IPv4~~

9. ~~UDP/TCP~~

10. ~~Process to process~~

11. ~~Data link~~

12. ~~Physical~~

|  |  |  |
| --- | --- | --- |
| **Layer** | **Function** | **Example** |
| Application |  | HTTP |
| Transport | Process to process | UDP/TCP |
| Network |  | IPv4 |
| Data Link | Host to host | MAC |
| Physical |  | 1’s and 0’s |

2. Fill out the table below for IP address 172.18.4.3/24.

|  |  |  |
| --- | --- | --- |
|  |  | Answer |
| Host portion of the IP | 172 | 0.0.0.3 |
| Network portion of the IP | 18.4.3/24 | 172.18.4 |
| Broadcast Address | 172.18.4.255 | 172.18.4.255 |
| Size of Subnet |  | 256 (32-24 = 8 bits), 32 because IPv4 |

Q: Reverse a list in place: [ 2,5,4,2] -> [2,4,5,2]

def reverse(list):

max = len(list)

For i in len(list)/2:

List[i], list[max-i] = list[max-i], list[i]

Return list

https://stackoverflow.com/a/56463830