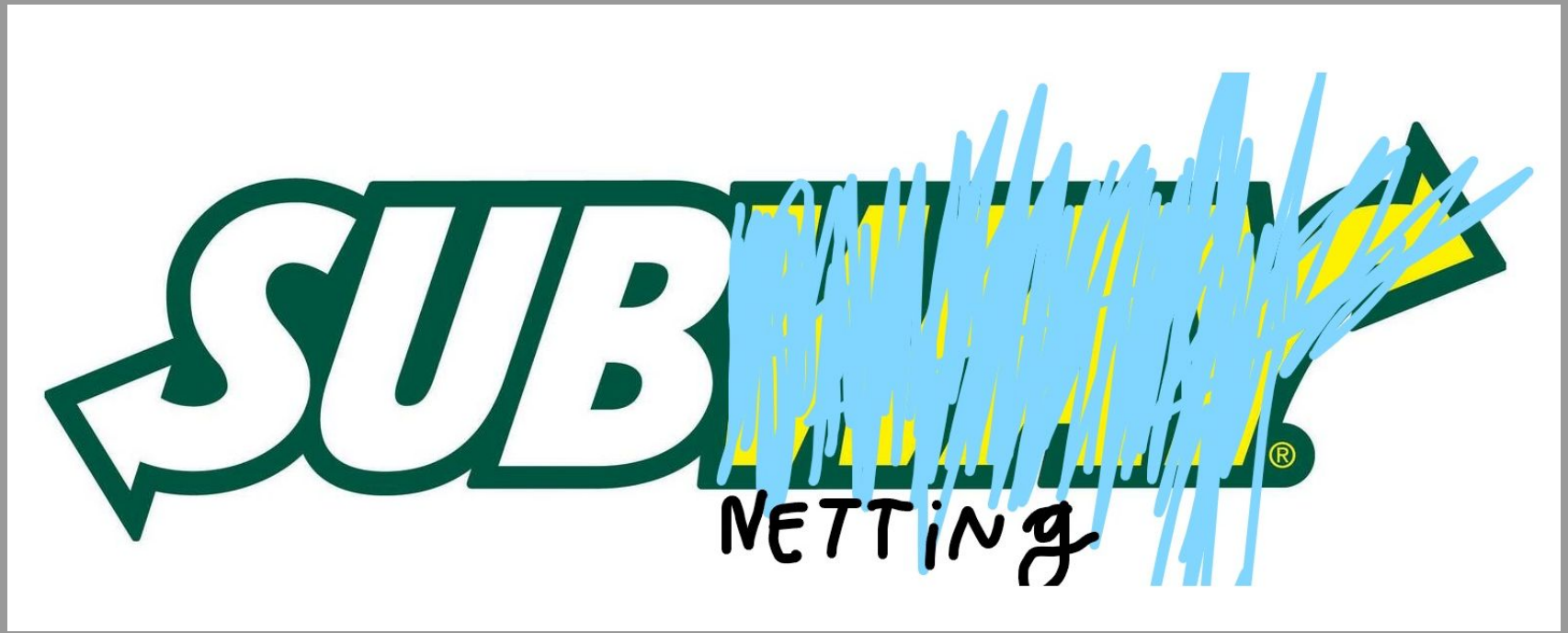

SUB
NETTING

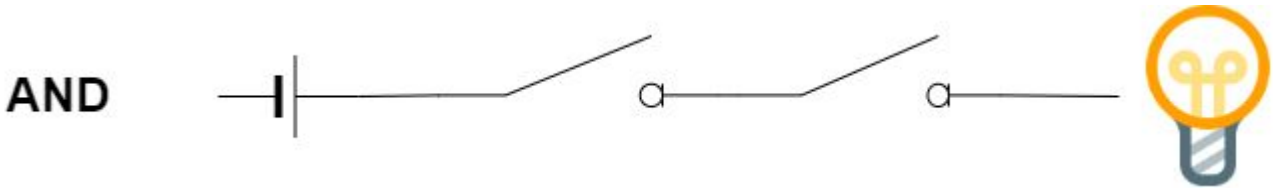
Key problems of the exercise:

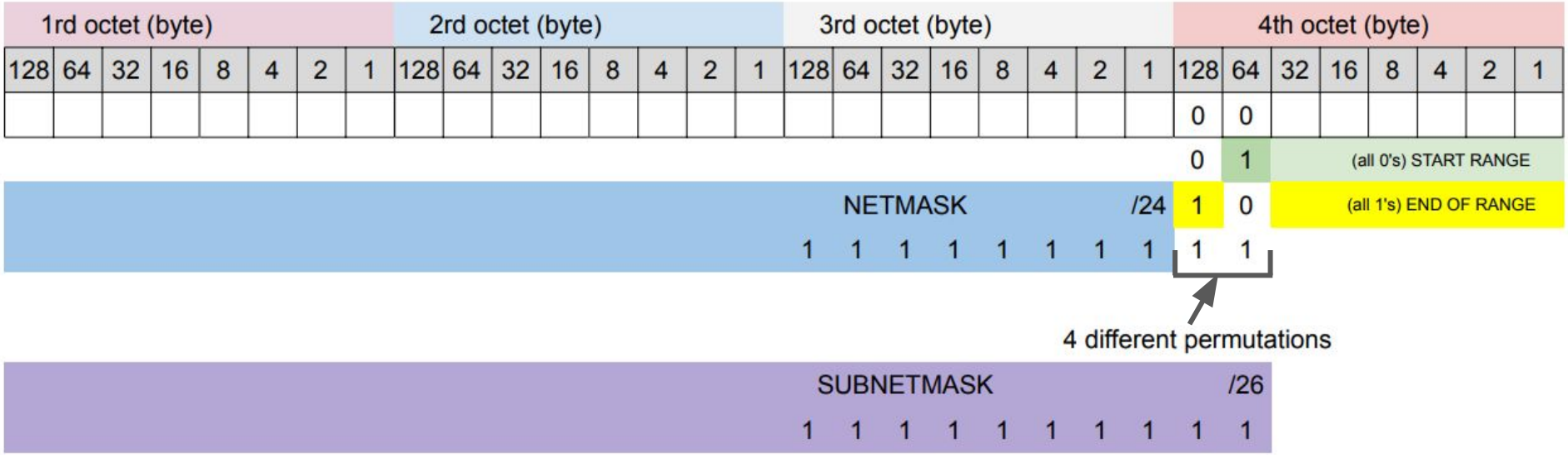
- Public / Private subnet (one-way / two-way traffic)
- How can a private subnet connect to the internet (NAT)
- How many subnets do we need?
- **How are the different subnets distinguished by the router? (Submask)**

IP vs Submask

IPv4 = 32 bits

Submask divides the IP into network and host partition by performing bitwise AND





MAX IP RANGE:
64 possible combinations

(First 2 bits are network)

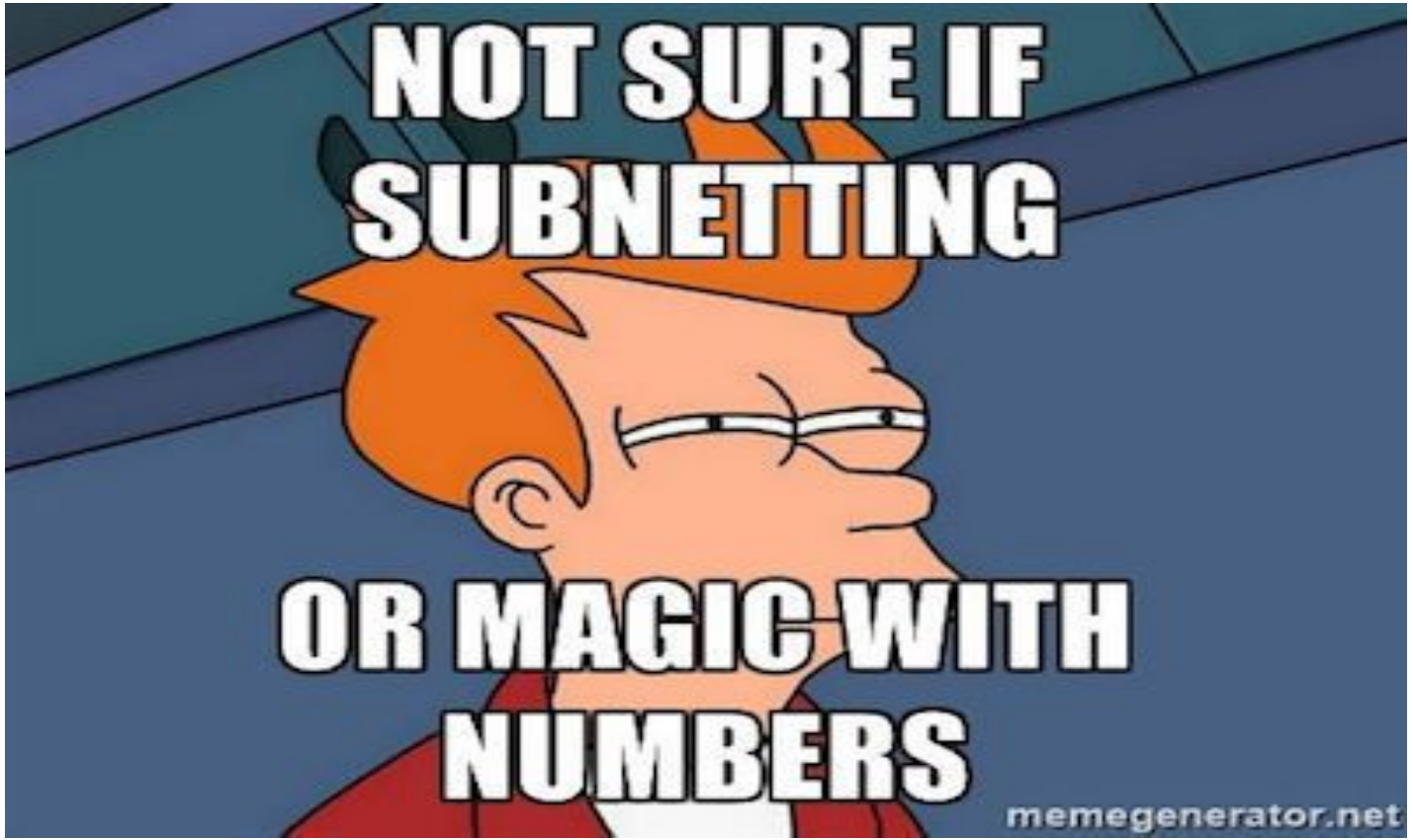
4th octet (byte)							
-	-	32	16	8	4	2	1
0	0	1	1	1	1	1	1

SUM = 63

Click here to show example:

LINK TO GITHUB

Nog Vragen?


NOT SURE IF
SUBNETTING
OR MAGIC WITH
NUMBERS
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