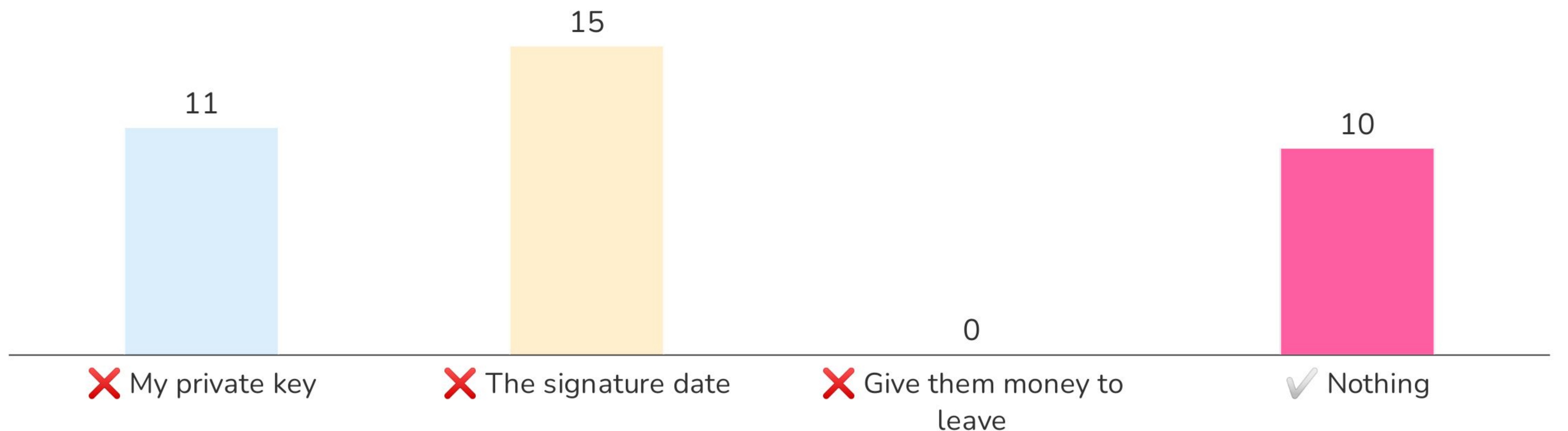
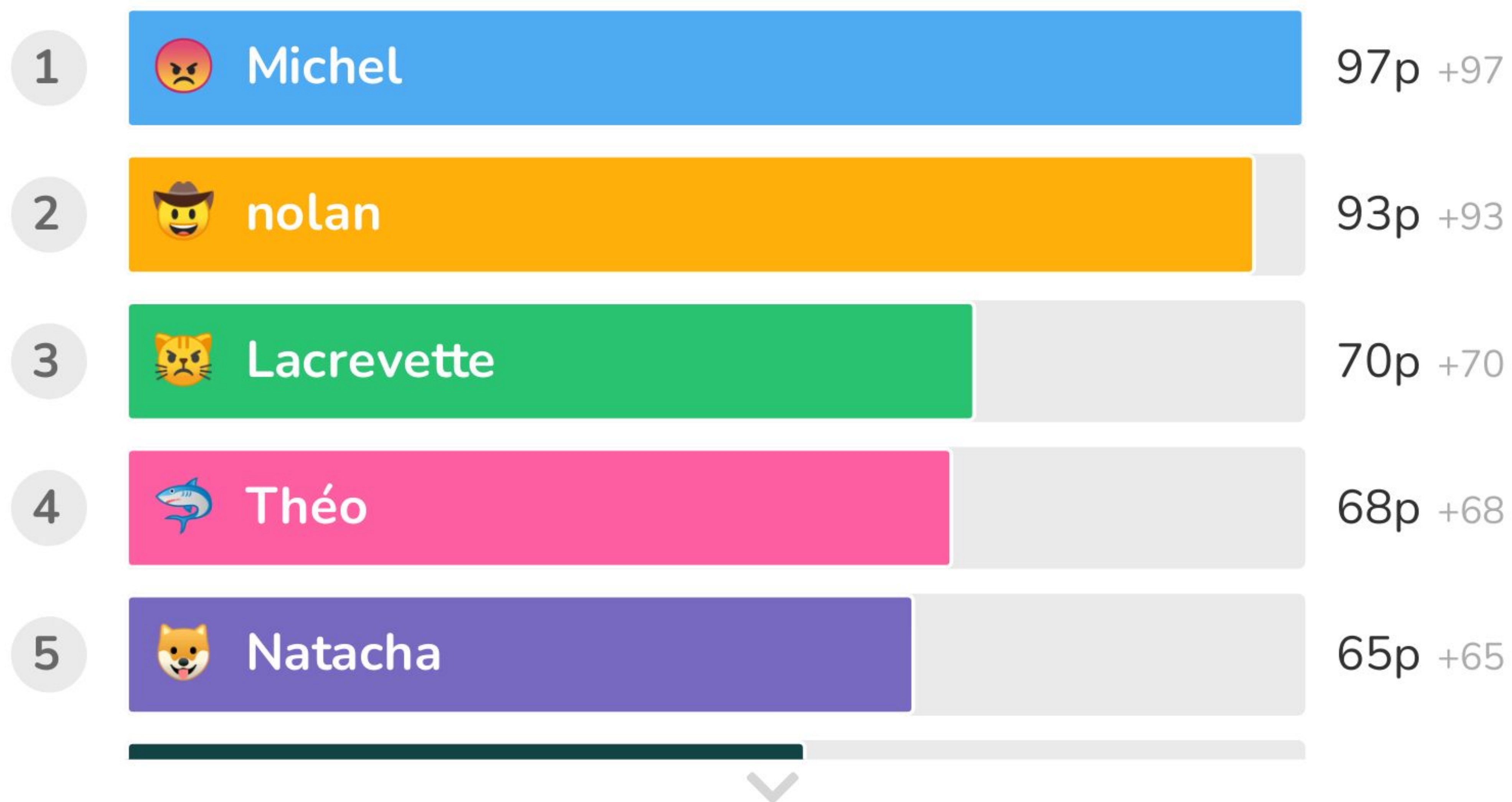


The blockchain police shows me a certificate with my name on it, my signature and some data, because they suspect a fraud. What information can I provide them to show that it is legit ?

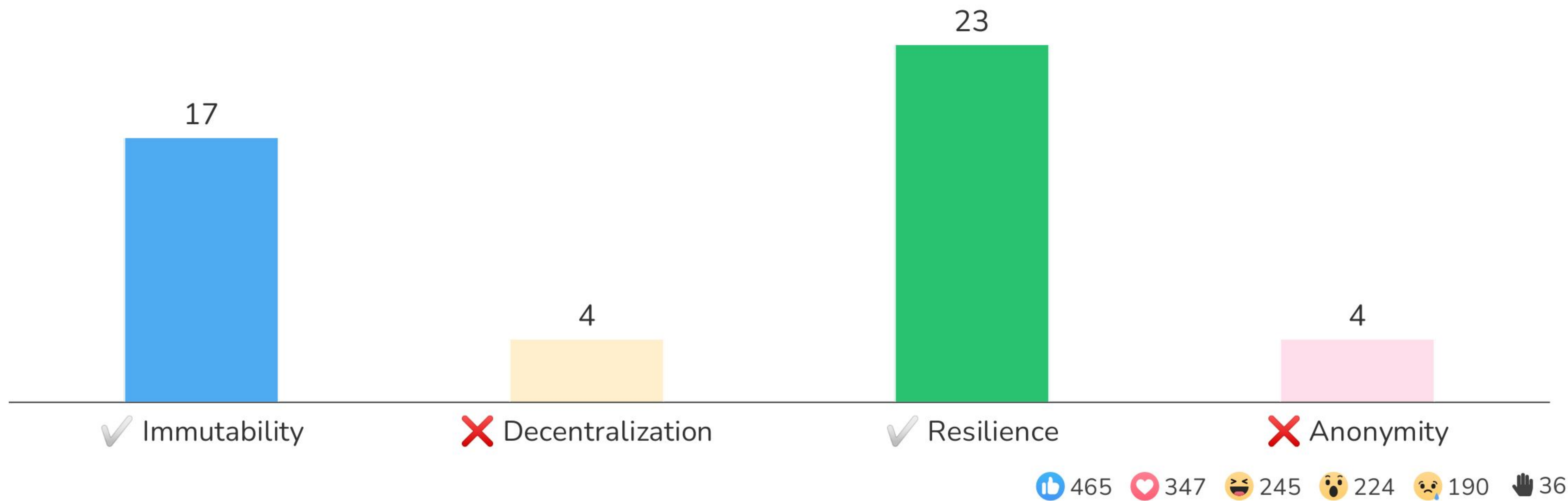


# Leaderboard

35 joueurs



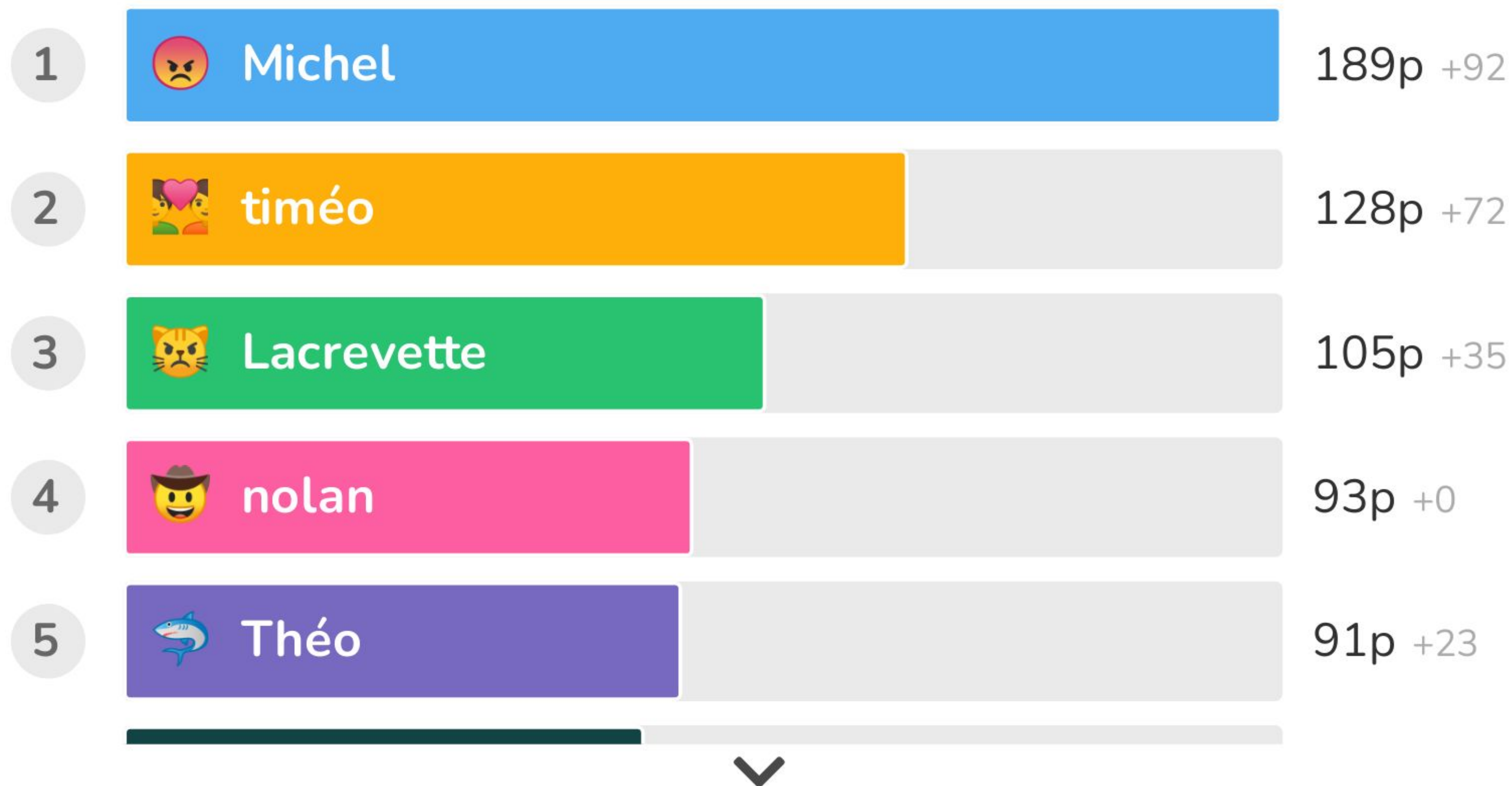
If anyone can add blocks to the blockchain, which of these properties becomes invalid ?



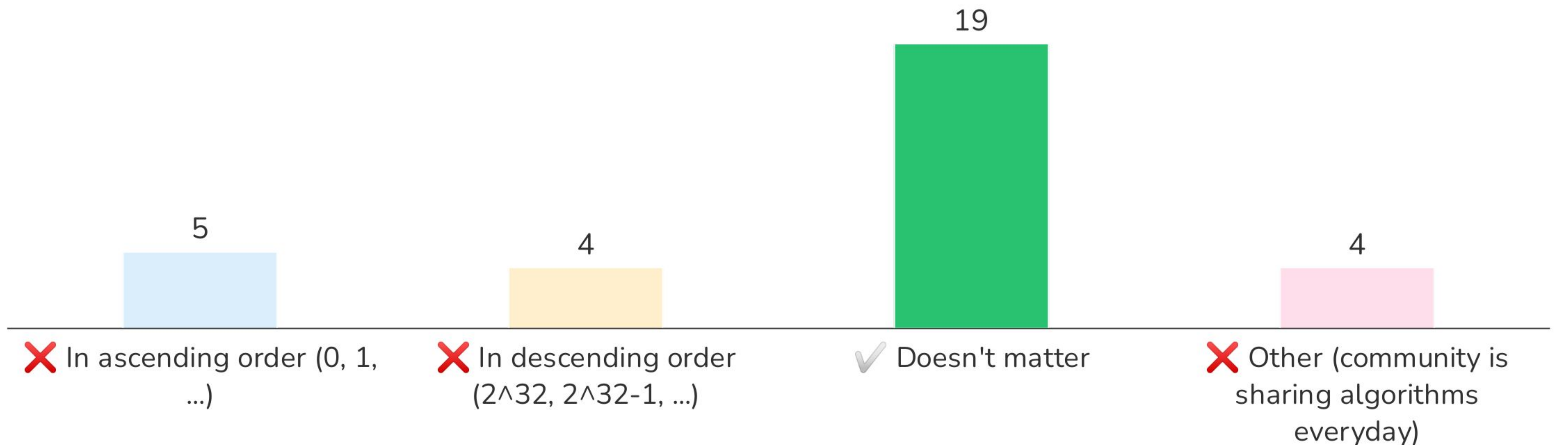


# Leaderboard

40 joueurs




# I am mining bitcoin. In what order do I need to try nonces to maximize my chances ?





# Leaderboard

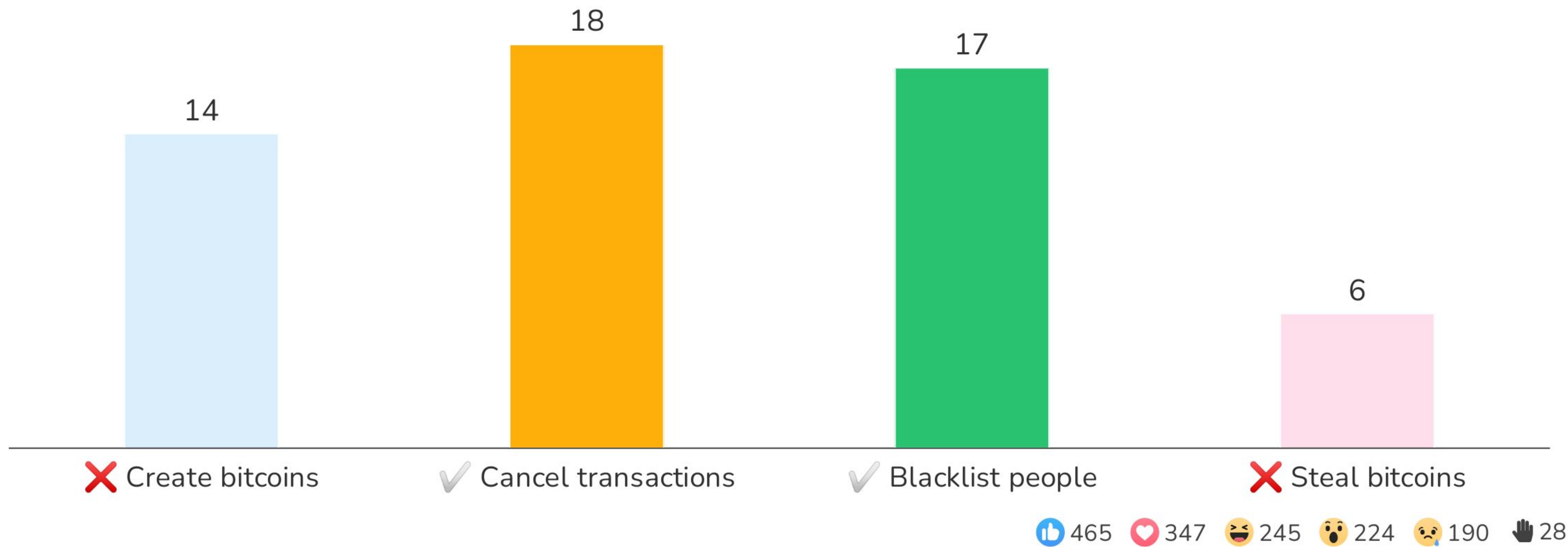
42 joueurs


x 3

Félicitations 😡 Michel, une série impressionnante !

1	😡 Michel	218p +29
2	💖 timéo	201p +73
3	😡 Lacrevette	196p +91
4	😭 Jeudi	174p +89
5	😡	161p +88

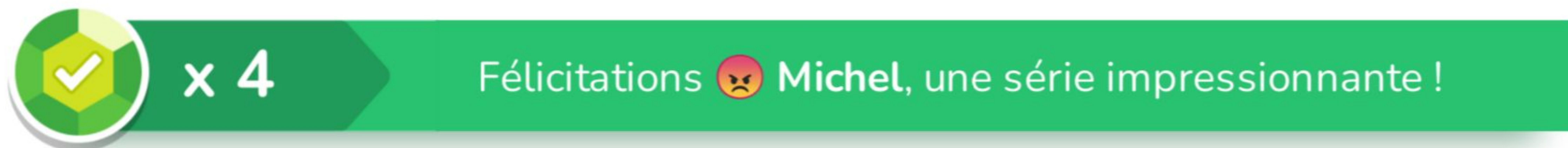
# Using a 51% attack, what can the attacker do ?





# Leaderboard

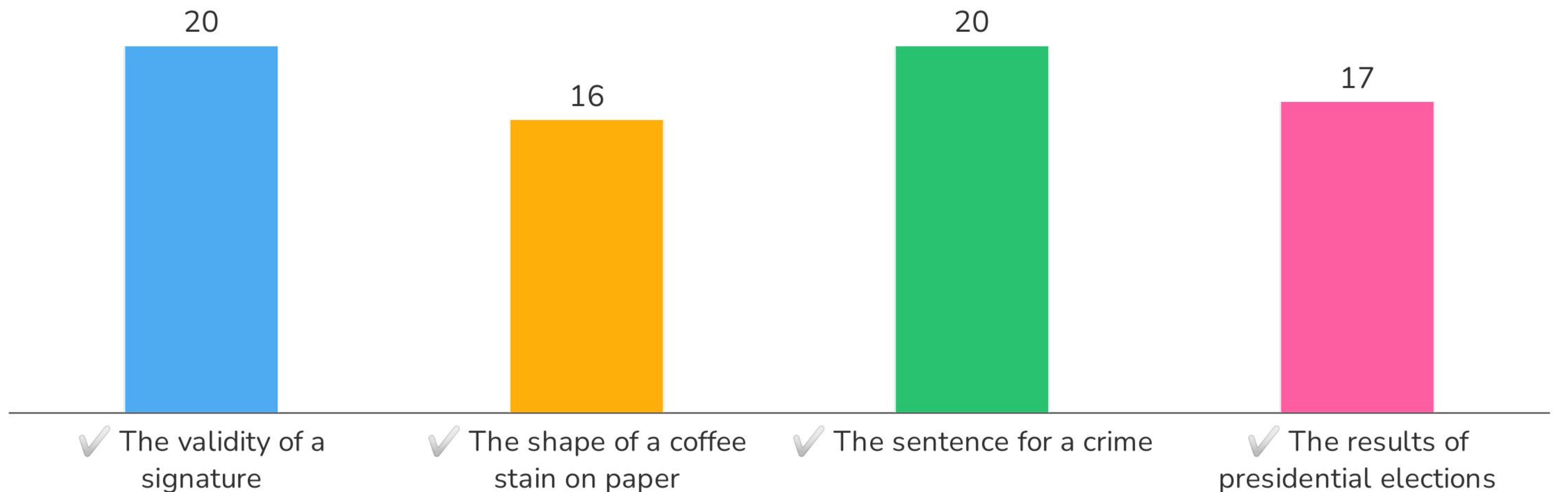
43 joueurs



1	😡 Michel	305p +87
2	😭 Jeudi	270p +96
3	💖 timéo	201p +0
4	😾 Lacrevette	196p +0
5	🎓 ...	170p +0



# Which of the following concepts are deterministic ?



# Leaderboard

44 joueurs



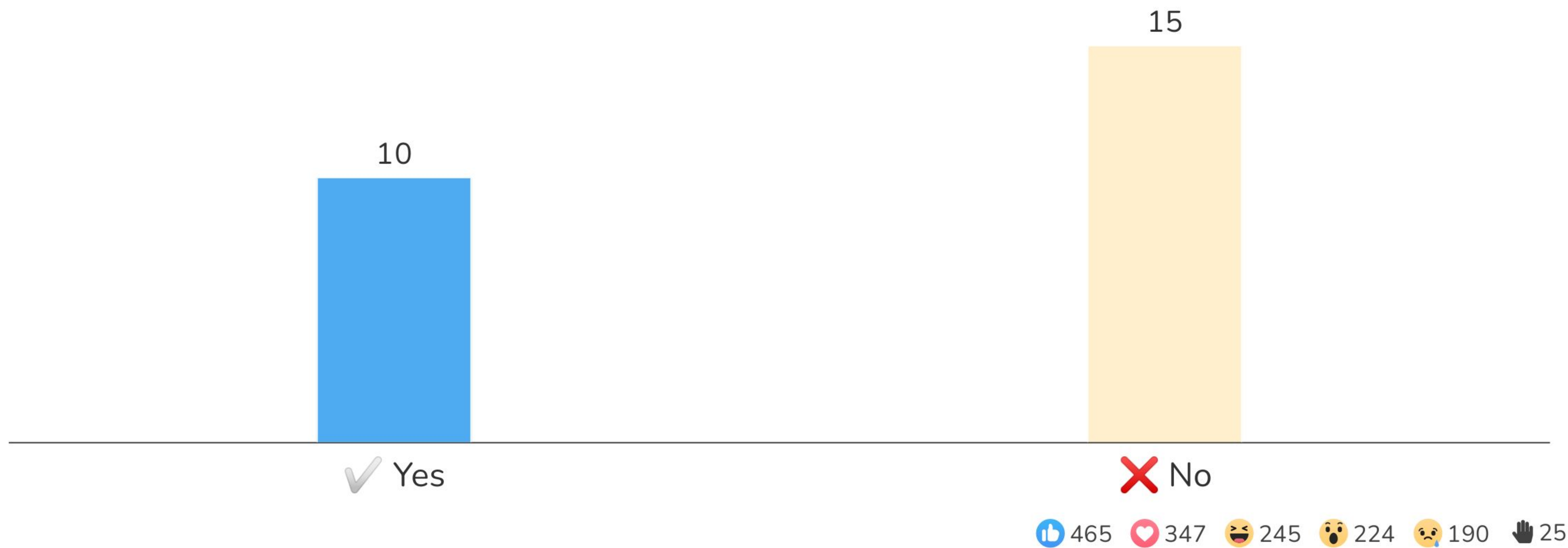
x 5

Félicitations 😡 Michel, une série impressionnante !

1	😡 Michel	397p +92
2	😭 Jeudi	364p +94
3	😾 Lacrevette	236p +40
3	💩 DIEU DIVIN ET P...	236p +74
5	💕 tina /	220p +57

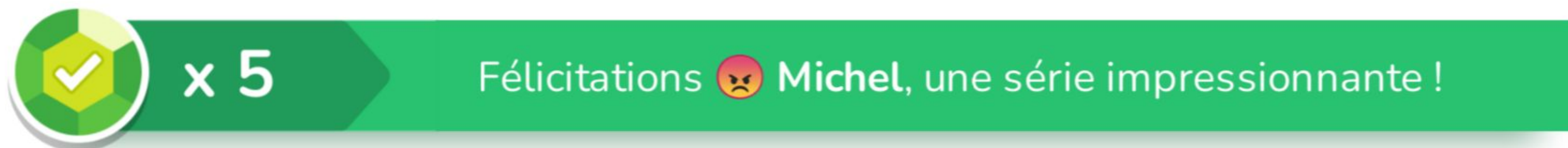


# "The forger is always Alice" is a consensus algorithm



# Leaderboard

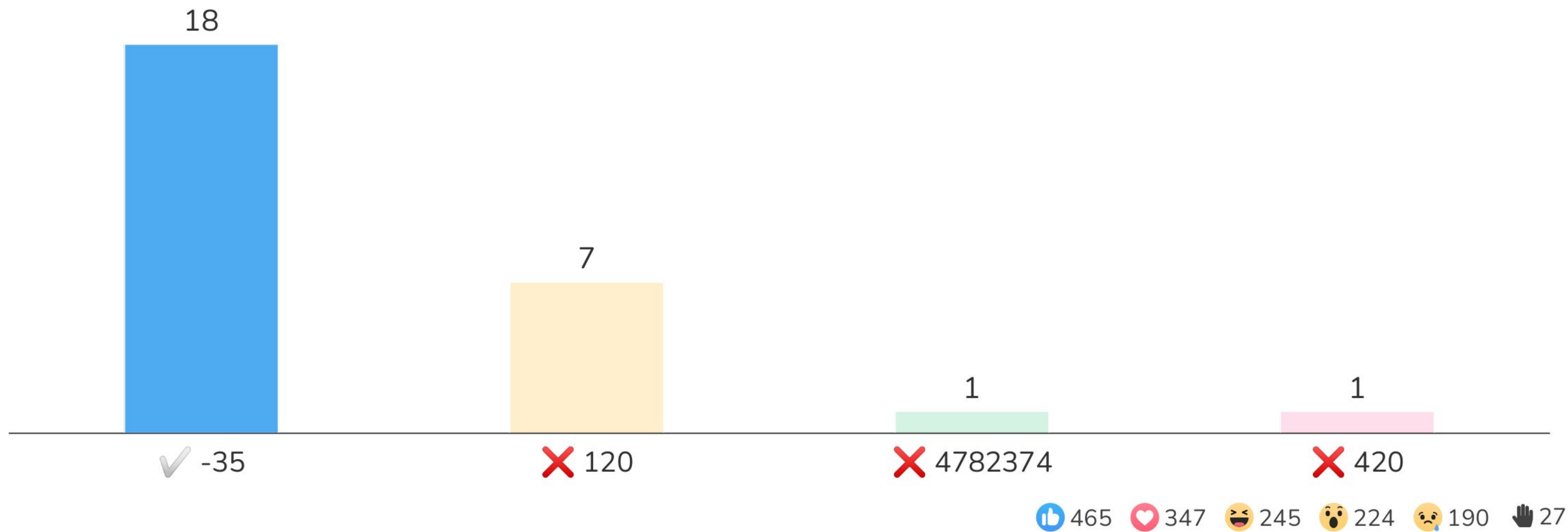
45 joueurs



1	😡 Michel	397p +0
2	😭 Jeudi	364p +0
3	😾 Lacrevette	329p +93
4	🎓 nathan	312p +94
5	🐱	200p +0

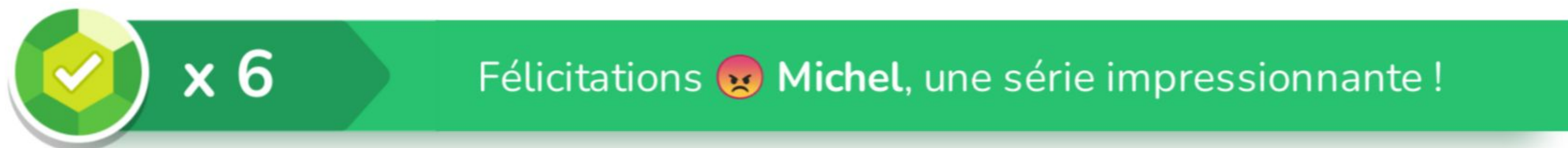


The hash of latest block is 42. Which of those 4 tickets (whose hash is given) is the big winner of Proof-of-Stake ?



# Leaderboard

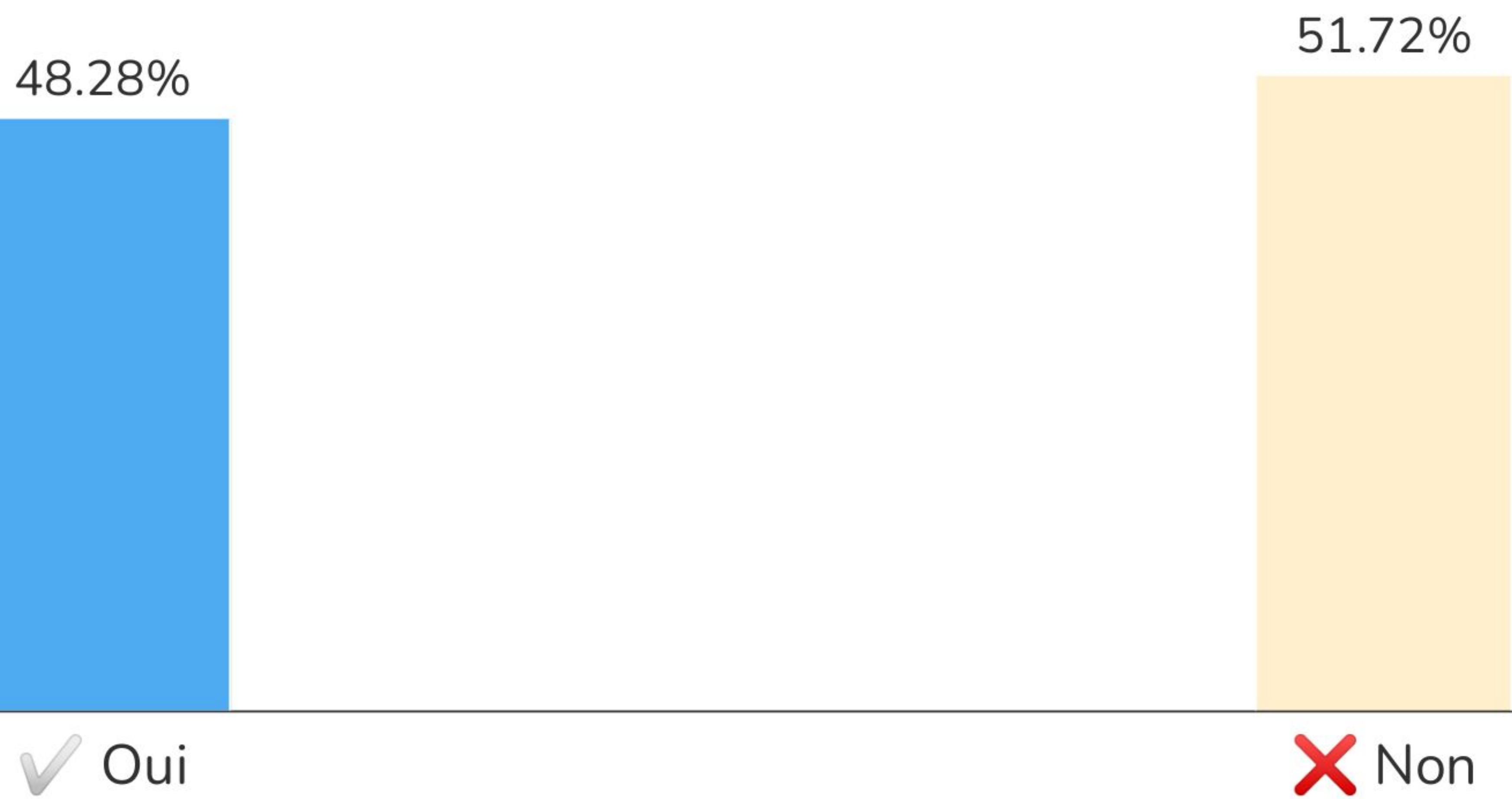
47 joueurs



1	😡 Michel	453p +56
2	😾 Lacrevette	410p +81
3	🎓 nathan	409p +97
4	😭 Jeudi	364p +0
5	🐱	363p +0

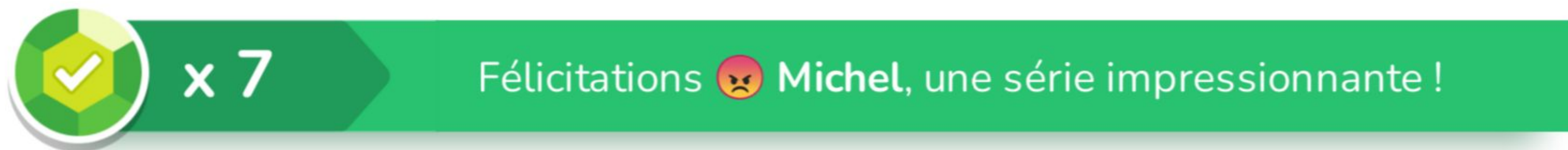


In Proof-of-Stake (PoS) can I at any point know how many tokens I should have staked to be guaranteed to be the next forger ?



# Leaderboard

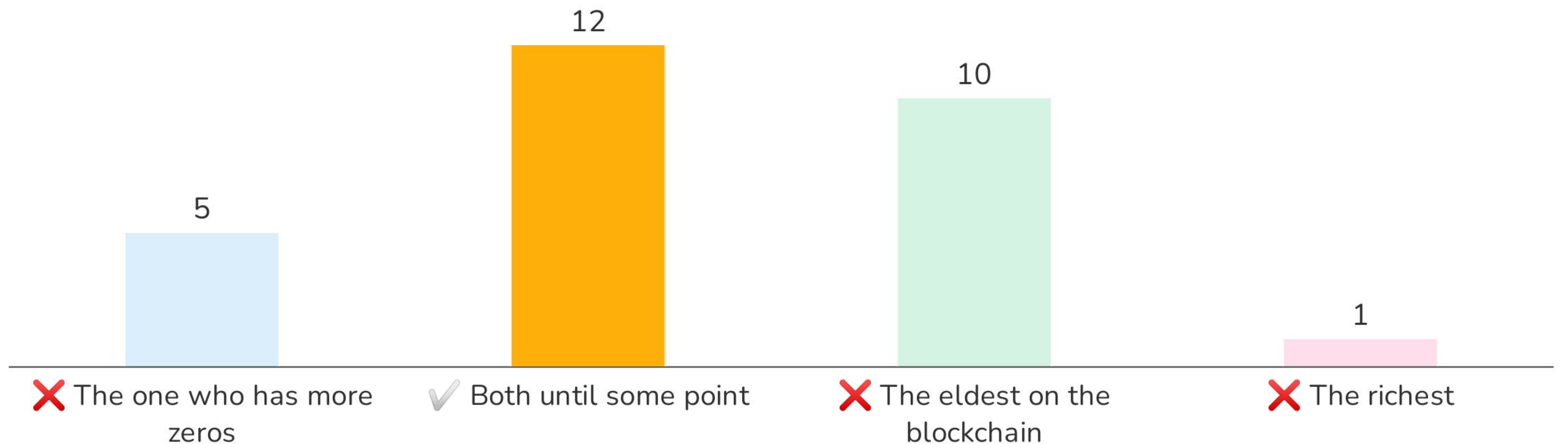
48 joueurs



1	😡 Michel	551p +98
2	😡 Lacrevette	488p +78
3	😡 Eva	430p +68
4	💰 Gaël	423p +94
5	🎓	400p +

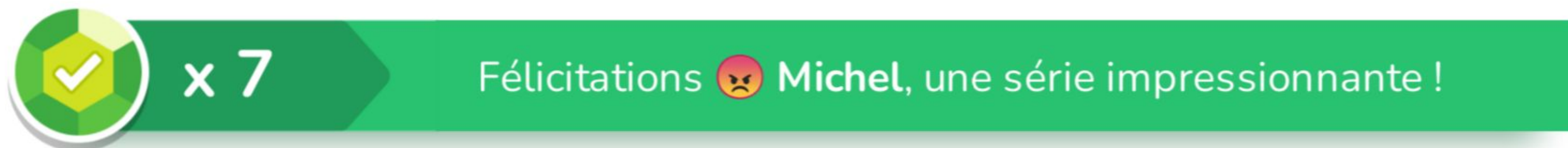


# Delphine and Bob find at the same time a valid nonce for next block. Who wins ?



# Leaderboard

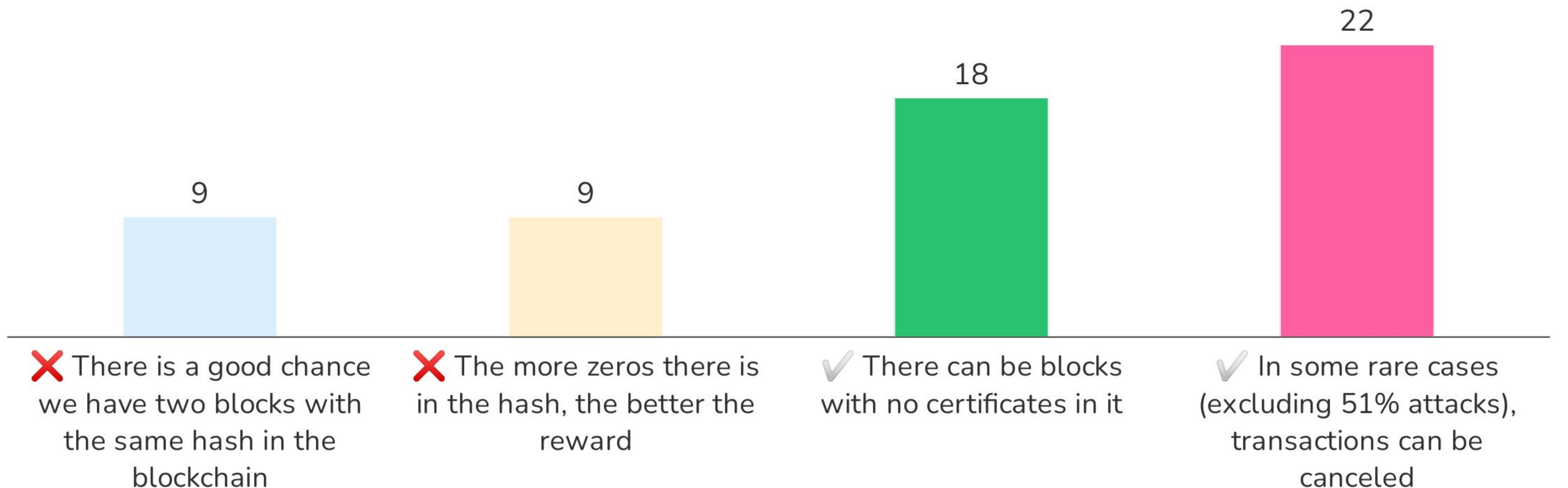
48 joueurs



1	😡 Michel	551p +0
2	😾 Eva	521p +91
3	🎓 nathan	493p +84
4	😾 Lacrevette	488p +0
5	👤 Alex	427p -65

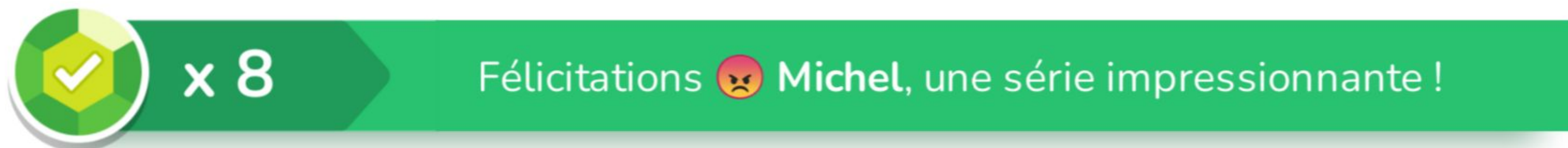


# In a PoW (Proof-of-Work) blockchain, which is true ?



# Leaderboard

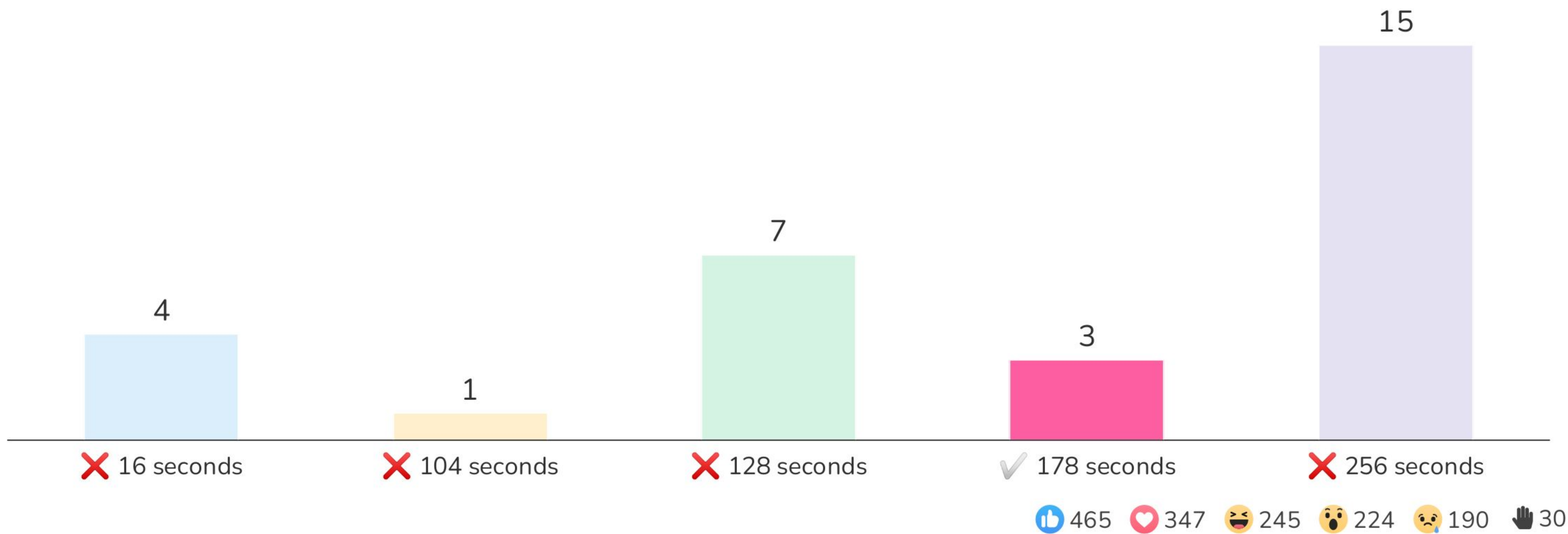
48 joueurs



1	😡 Michel	627p +76
2	🎓 nathan	531p +38
3	🐱 Eva	521p +0
4	🐱 Lacrevette	488p +0
5	🤖 Göl	464p +11

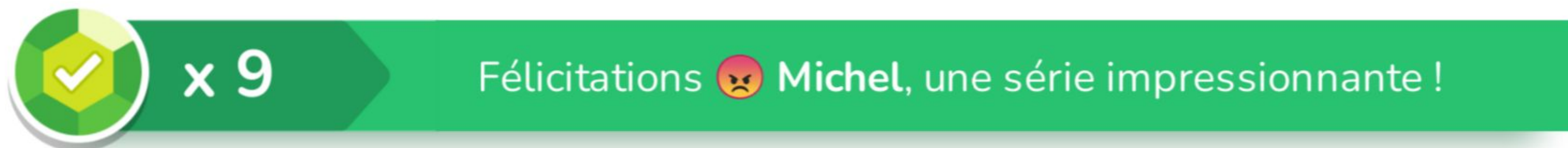


Calculating the hash of a block requires 1 second. If the current PoW difficulty is 2 zeros, how much time in average is needed to forge a block ?



# Leaderboard

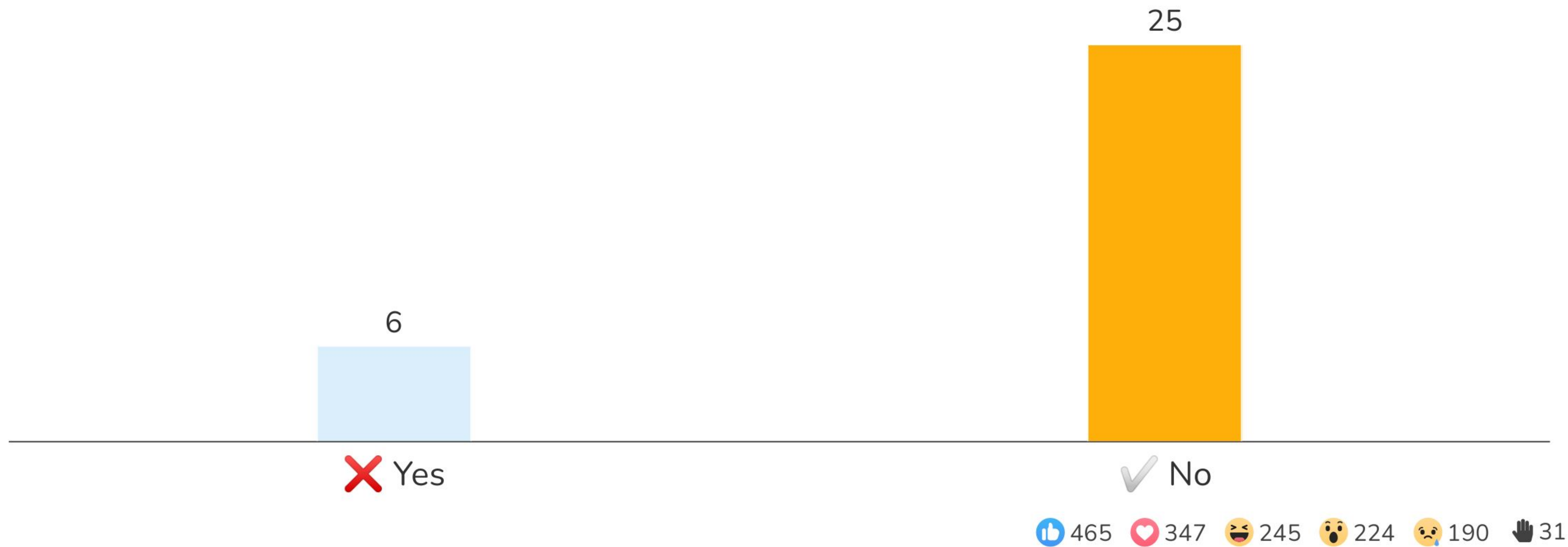
48 joueurs



1	😡 Michel	724p +97
2	😾 Eva	576p +55
3	🎓 nathan	531p +0
4	😾 Lacrevette	488p +0
5	🤩 Göl	464p +0



# Do people need to communicate to choose next forger ?



# Leaderboard

48 joueurs



x 10



Michel détient le record de la plus longue série !



## Michel

1	Michel	820p +96
2	Eva	674p +98
3	nathan	629p +98
4	Lacrevette	579p +91
5	Göll	562p +90

820 points

