

1. Explain what you know about layer 1 and layer 2. Use ELI5 to explain this.
2. Explain this scenario, a user wants to withdraw Arbitrum using Arbitrum One Network from exchange A to exchange B but the user has a mistake copy paste the Ethereum Main Net address deposit instead of Arbitrum One Network address deposit, what will happen? Say our exchange is the exchange B as a receiver, list all possibilities for this scenario and how will you as a frontend displaying the user balance regarding this scenario?
3. Explain this transaction hash, include the details
<https://mantlescan.xyz/tx/0xd43ce2aa598a75d9595a2c2779e5bf4b0375eef72a69c6d8e2b0bf5f676c66af>
4. Explain about the funding fee on exchange, how it works, and how you will as a frontend displaying this to the user?
5. What is network congestion? As a frontend, how will you display this to the user?
6. Why do you want to work for Bitwyre?

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1. Layer 1 is the main or base blockchain protocol while layer 2 is the protocol that is built on top of layer 1 to enhance the speed or add other features to the network.
 It can be thought that the layer 1 is the main road that connects different parts of cities which is very crowded and costly while layer 2 is the inter-city metro network built on the road which is very fast and cheap.
 2. Since Arbitrum is EVM compatible, the address for both arbitrum and ethereum deposit will be same on exchange B. Below are the cases that can happen:
 - If exchange B does not support the Arbitrum network (deposit on Arbitrum) it will not be able to recognise the deposit and the deposit might be in some Arbitrum wallet which will either be accessed never or it will be someone else's wallet. The tokens will be lost forever. In that case in exchange B we can show the same balance to the user as earlier.
 - If exchange B does support the Arbitrum network, then the exchange can detect that the transaction happened on Arbitrum One network and then can display the tokens it received. In this case in exchange B we can show the user the arbitrum token we received on the arbitrum network tab page.
 3. This transaction tells that a wallet ([0x0226de4A02f7080e5c00292B11aAb8A880E76618](#)) has transferred 4,341.7782164147 mantle to wallet ([0x588846213A30fd36244e0ae0eBB2374516dA836C](#)). The transaction was successful and was recorded in block number 71145626. Since mantle is a L2 network and a rollup, its transactions are grouped together and processed in order on L1 which is represented by information L1 State Batch Index: - 5540 and L1 State Root Submission Tx Hash: ([0x61914aac0c2662fc13717303dc53537d15f01b4fe78cc9872289febdb00e484c](#)). The transaction fee is 0.00226763344 MNT which is $\text{gasPrice} \times \text{gasUsage}$ i.e. ($0.00000000002 \text{ MNT} \times 113,381,672$). The transaction fee comprises of 2 fees: L2 fees (0.001771212443989138 MNT) and L1 fees (0.000496420996010862 MNT)

4. Not aware of the funding fees
5. When there are too many transactions happening on blockchain ,due to the limited number of nodes processing the transactions, the time taken to process the transaction increases and the gas price also increases. As a frontend dev, we can make aware the user that currently too many transactions are happening and the gas prices and the time to process the transaction will be higher. We can display this when in the form of a modal or warning when the user is seeing the estimated gas price or the total fees for transaction. We can also tell the user that we can notify them later when the gas fees go down.
6. During this year, I have been looking forward to getting involved in new technologies that are right now defining the world that are AI and Web3. More than ever now, since the election of Trump I feel that Web3 is going to get more push from the world leaders. The shake in traditional systems have been shaken down more than often like the robinhood scandal, etc. Web3 is one space where since everything is decentralized and immutable, there are unbreakable promises that execute which are more than ever needed in today's world. Apart from that, I also want to involve myself in web3 and learn more of it, so I can be future proof and being a part of a crypto exchange based in a growing economy like Indonesia seems the best place for it.