A1:

I - 1485
II - curl https://sepolia.infura.io/v3/2721d62293424070acfd11eab1abd917   -X POST
-H "Content-Type: application/json"   -d
'{"jsonrpc":"2.0","method":"eth_gasPrice","params": [],"id":1}'
III - {"jsonrpc":"2.0","id":1,"result":"0x5cd"}

A2:

I - 4260942
II - curl https://sepolia.infura.io/v3/2721d62293424070acfd11eab1abd917 -X POST
-H "Content-Type: application/json" -d
'{"jsonrpc":"2.0","method":"eth_blockNumber","params": [],"id":1}'
III - {"jsonrpc":"2.0","id":1,"result":"0x41044e"}

A3:

I - 0
II - curl https://sepolia.infura.io/v3/2721d62293424070acfd11eab1abd917 -X POST
-H "Content-Type: application/json" -d
'{"jsonrpc":"2.0","method":"eth_getBalance","params":
["0xBaF6dC2E647aeb6F510f9e318856A1BCd66C5e19","latest"],"id":1}'
III - {"jsonrpc":"2.0","id":1,"result":"0x0"}

A4:

I -
II - curl https://mainnet.infura.io/v3/2721d62293424070acfd11eab1abd917 -X POST
-H "Content-Type: application/json" -d
'{"jsonrpc":"2.0","method":"eth_getTransactionByHash","params":
["0xdcae4a84a5780f62f18a9afb07b3a7627b9a28aa128a76bfddec72de9a0c2606"],"i
d":1}'
III -
{{"jsonrpc":"2.0","id":1,"result":{"accessList":[],"blockHash":"0x53d920959cf1ee6f569f
cdeba03c9d91c54f4c34e893cd937536f7ae8c60be9a","blockNumber":"0x1132aea","
chainId":"0x1","from":"0xbaf6dc2e647aeb6f510f9e318856a1bcd66c5e19","gas":"0x5
65f","gasPrice":"0x4cc13ee7c","hash":"0xdcae4a84a5780f62f18a9afb07b3a7627b9a
28aa128a76bfddec72de9a0c2606","input":"0x","maxFeePerGas":"0x4cc13ee7c","ma
xPriorityFeePerGas":"0x0","nonce":"0xbf4a","r":"0x3c54f1d468465af6d4ad737ca626
399a3b8180a510479585873531b5cfe0443e","s":"0x7dc4757678d30c50ce1932c9d0
603274cfcb6719c64c0c1603834a43eadbf961","to":"0x388c818ca8b9251b393131c0
8a736a67ccb19297","transactionIndex":"0x73","type":"0x2","v":"0x0","value":"0x6a3b
3f81ce3ff3","yParity":"0x0"}}

I. the number of transactions made by the sender prior to this one in the block. Give
the answer as an integer - 48970
II. value transferred in Wei(In Integer) - 29901491478085619
III. JSON RPC payload

IV. Response

A5:

I - 100
II - curl https://sepolia.infura.io/v3/2721d62293424070acfd11eab1abd917 -X POST
-H "Content-Type: application/json" -d
'{"jsonrpc":"2.0","method":"net_peerCount","params": [],"id":1}'
III - {"jsonrpc":"2.0","id":1,"result":"0x64"}

A6:

I - NULL
II - curl https://mainnet.infura.io/v3/2721d62293424070acfd11eab1abd917 -X POST
-H "Content-Type: application/json" -d
'{"jsonrpc":"2.0","method":"eth_getTransactionReceipt","params":
["0x5d692282381c75786e5f700c297def496e8e54f0a96d5a4447035f75085933cb"],"id":1}'
III -

{{"jsonrpc":"2.0","id":1,"result":{"blockHash":"0x53d920959cf1ee6f569fcdeba03c9d91c54f4c34e893cd937536f7ae8c60be9a","blockNumber":"0x1132aea","contractAddress":null,"cumulativeGasUsed":"0xf8b37d","effectiveGasPrice":"0x4cf0edefc","from":"0x6887246668a3b87f54deb3b94ba47a6f63f32985","gasUsed":"0x1ab988","logs":[],"logsBloom":"0x00","status":"0x1","to":"0xff00000000000000000000000000000000000010","transactionHash":"0x5d692282381c75786e5f700c297def496e8e54f0a96d5a4447035f75085933cb","transactionIndex":"0x6f","type":"0x2"}}

I. the blockNumber (integer) - 18033386
II. blockHash -
0x53d920959cf1ee6f569fcdeba03c9d91c54f4c34e893cd937536f7ae8c60be9a
III. cumulativeGasUsed (integer) - 16298877
IV. transactionIndex (integer) - 111

A7:

I - 116
II - curl https://mainnet.infura.io/v3/2721d62293424070acfd11eab1abd917 -X POST
-H "Content-Type: application/json" -d
'{"jsonrpc":"2.0","method":"eth_getBlockTransactionCountByNumber","params":
["0x1132aea"],"id":1}'
III - {"jsonrpc":"2.0","id":1,"result":"0x74"}