

RAPPORT TRAVAUX PRATIQUE :

Développer, Deloyer et Interagir avec un contrat intelligent sur Ethereum

Question G :

[This is a Sepolia Testnet transaction only]

Transaction Hash:	0x00e93d86168b8a4228353373a0974f81a27eb874b99084e3701800c2d9cf6876
Status:	Success
Block:	8000139 35 Block Confirmations
Timestamp:	7 mins ago (Mar-28-2025 02:16:12 PM UTC)
From:	0x2a88690AaBB7fC771970A27Cf0784f500cF3aEa5
To:	0x86663de5DbD3b915De208145b2Cc66d02Bd0243B
Value:	0.01 ETH
Transaction Fee:	0.000032590454316 ETH
Gas Price:	1.551926396 Gwei (0.000000001551926396 ETH)

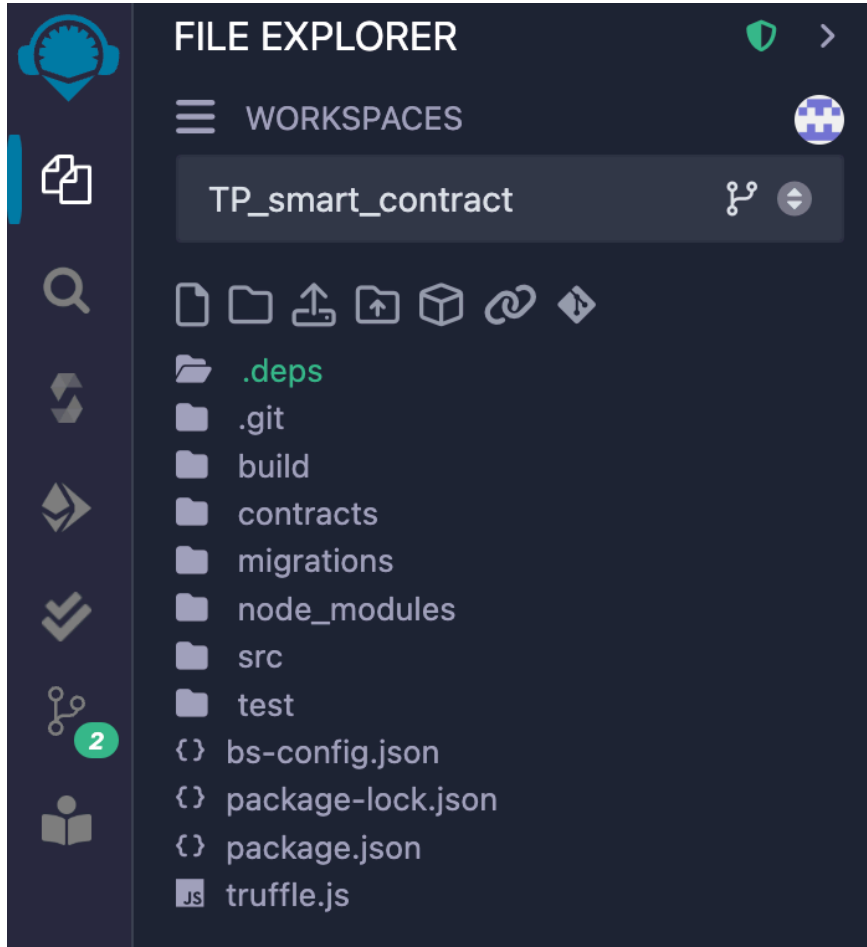
Gas Limit & Usage by Txn:	21,000 21,000 (100%)
Gas Fees:	Base: 0.051926396 Gwei Max: 1.569677415 Gwei Max Priority: 1.5 Gwei
Burnt & Txn Savings Fees:	Burnt: 0.00001090454316 ETH (\$0.00) Txn Savings: 0.000000372771399 ETH (\$0.00)
Other Attributes:	Txn Type: 2 (EIP-1559) Nonce: 24 Position In Block: 51
Input Data:	0x
More Details:	Click to show less

Question H :

[This is a Sepolia Testnet block only]

Block Height:	8000139 < >
Status:	Unfinalized (Safe)
Timestamp:	10 mins ago (Mar-28-2025 02:16:12 PM +UTC)
Proposed On:	Block proposed on slot 7286481, epoch 227702
Transactions:	122 transactions and 17 contract internal transactions in this block
Withdrawals:	16 withdrawals in this block
Fee Recipient:	0x455E5AA18469bC6ccEF49594645666C587A3a71B in 12 secs
Block Reward:	0.008191665665774477 ETH (0 + 0.009058741557522589 - 0.000867075891748112)
Total Difficulty:	0
Size:	163,489 bytes
Gas Used:	16,698,172(46.38%) -7% Gas Target
Gas Limit:	36,000,000
Base Fee Per Gas:	0.000000000051926396 ETH (0.051926396 Gwei)
Burnt Fees:	0.000867075891748112 ETH
Extra Data:	geth go1.24.1 linux (Hex:0xd883010f05846765746888676f312e32342e31856c696e7578)

Question L :



Question N :

Transaction Hash:	0x29d2b21335e4959fc36750ce3513452b3ba4cd99b4ca17a5166bb72836f74141
Status:	Success
Block:	8000323 9 Block Confirmations
Timestamp:	2 mins ago (Mar-28-2025 02:53:48 PM UTC)
Transaction Action:	Call 0x60806040 Method by 0x86663de5...02Bd0243B
From:	0x86663de5DbD3b915De208145b2Cc66d02Bd0243B
To:	[0x33b6a4cbfd6e3daf98a81677b2a656131127915b Created]
Value:	0 ETH
Transaction Fee:	0.001383488880634 ETH
Gas Price:	1.62392761 Gwei (0.00000000162392761 ETH)

Gas Limit & Usage by Txn:	859,869 851,940 (99.08%)
Gas Fees:	Base: 0.12392761 Gwei Max: 1.678436959 Gwei Max Priority: 1.5 Gwei
Burnt & Txn Savings Fees:	Burnt: 0.000105578880634 ETH (\$0.00) Txn Savings: 0.00004643869478706 ETH (\$0.00)

Other Attributes:	Txn Type: 2 (EIP-1559) Nonce: 0 Position In Block: 46
Input Data:	0x6080604052348015600e575f80fd5b50335f806101000a81548173ff021916908373ff160217905550610e0d8061005b5f395ff3fe08060405234801561000f575f80fd5b506004361061007b575f3560e01c8063462e91ec11610059578063462e91ec146100eb5780638da5cb5b14610107578063a3ec138d14610125578063f2fde38b146101555761007b565b80630121b93f1461007f5780632d

View Input As

Justifier les frais de transactions « Transaction fees » que vous avez payés. Sont-elles identiques à celle de la précédente transaction ?

On voit que les actions ont un prix différent, je pense que cela est dû au fait que l'une est une simple transaction et l'autre est une création d'un smart contract

Quelle est l'adresse public de votre smart contract ?

0x33b6a4cbfd6e3daf98a81677b2a656131127915b

Question P :

Transaction Hash:	0x9f4fef1e01bce78b97fa5356c58fdfe09ce960d7f04147393122cdc5c27cf3f3
Status:	Success
Block:	8000412 2 Block Confirmations
Timestamp:	30 secs ago (Mar-28-2025 03:11:48 PM UTC)
Transaction Action:	Call Add Candidate Function by 0x86663de5...02Bd0243B on 0x33b6a4CB...31127915b
From:	0x86663de5DbD3b915De208145b2Cc66d02Bd0243B
To:	0x33b6a4CBFD6e3dAF98A81677b2A656131127915b
Value:	0 ETH
Transaction Fee:	0.000151845959099184 ETH
Gas Price:	1.609492486 Gwei (0.000000001609492486 ETH)
Gas Limit & Usage by Txn:	95,301 94,344 (99%)
Gas Fees:	Base: 0.109492486 Gwei Max: 1.634111993 Gwei Max Priority: 1.5 Gwei
Burnt & Txn Savings Fees:	Burnt: 0.000010329959099184 ETH (\$0.00) Txn Savings: 0.000002322702768408 ETH (\$0.00)
Other Attributes:	Txn Type: 2 (EIP-1559) Nonce: 1 Position In Block: 64
Input Data:	Function: addCandidate(string name) *** MethodID: 0x462e91ec [0]: 0020 [1]: 0008 [2]: 6d617a7a696c6c6900 View Input As Decode Input Data View In Decoder

Question Q :

0: uint256: id 1
1: string: name mazzilli
2: uint256: voteCount 0

Question R :

Transaction Hash:

0x90d331ad1f3756ed0fff346e02d1f4f16feff97885aed99b2227dfea9126b860

Status:

Success

Block:

80004573 Block Confirmations

Timestamp:

33 secs ago (Mar-28-2025 03:21:00 PM UTC)

Transaction Action:

Call Add Candidate Function by 0x86663de5...02Bd0243B on 0x33b6a4CB...31127915b

From:

0x86663de5DbD3b915De208145b2Cc66d02Bd0243B

To:

0x33b6a4CBFD6e3dAF98A81677b2A656131127915b

Value:

0 ETH

Transaction Fee:

0.000123887686974456 ETH

Gas Price:

1.603848674 Gwei (0.000000001603848674 ETH)

Gas Limit & Usage by Txn:

78,133 | 77,244 (98.86%)

Gas Fees:

Base: 0.103848674 Gwei | Max: 1.636603713 Gwei | Max Priority: 1.5 Gwei

Burnt & Txn Savings Fees:

Burnt: 0.000008021686974456 ETH (\$0.00)Txn Savings: 0.000002530130232516 ETH (\$0.00)

Other Attributes:

Txn Type: 2 (EIP-1559)Nonce: 2Position In Block: 49

Input Data:

Function: addCandidate(string name) ***

MethodID: 0x462e91ec

[0]: 0020

[1]: 0008

[2]: 636865726d61696e00

View Input As

Decode Input Data

View In Decoder

Question S :

0: uint256: id 2

1: string: name chermain

2: uint256: voteCount 0

Question T :

0: address: 0x86663de5DbD3b915De208145b2Cc66d02Bd0243B

Question U :

[illegible]

Question V :

0: uint256: id 1

```
1: string: name mazzilli
```

```
2: uint256: voteCount 1
```

Question W :

Transaction Hash:

0x394895d363992bc7517d1f7d8fe5e50a5c8dd0205eb6ca0538267a70cc53c466

Status:

Success

Block:

80005181 Block Confirmation

Timestamp:

12 secs ago (Mar-28-2025 03:33:24 PM UTC)

Transaction Action:

Call Vote Function by 0x86663de5...02Bd0243B on 0x3935D093...Eb9D89542

From:

0x86663de5DbD3b915De208145b2Cc66d02Bd0243B

To:

0x3935D093E5d6C91d20658182a6DC66Eb9D89542

Value:

0 ETH

Transaction Fee:

0.00008205378042612 ETH

Gas Price:

1.558535565 Gwei (0.000000001558535565 ETH)

Gas Limit & Usage by Txn:

53,440 | 52,648 (98.52%)

Gas Fees:

Base: 0.058535565 Gwei | Max: 1.578582389 Gwei | Max Priority: 1.5 Gwei

Burnt & Txn Savings Fees:

Burnt: 0.00000308178042612 ETH (\$0.00)Txn Savings: 0.00000105425189952 ETH (\$0.00)

Other Attributes:

Txn Type: 2 (EIP-1559)Nonce: 4Position In Block: 25

Input Data:

Function: vote(uint256 yes) ***
MethodID: 0x0121b93f
[0]: 00
View Input AsDecode Input DataView In Decoder

Question X :

Transaction Hash:

0x341f6fc41686118d910b9477af4649fb2962d60f5bf2e5738c7900c0759e93a58

Status:

Success

Block:

80005331 Block Confirmation

Timestamp:

41 secs ago (Mar-28-2025 03:36:24 PM UTC)

Transaction Action:

Call Transfer Ownership Function by 0x86663de5...02Bd0243B on 0x3935D093...Eb9D89542

From:

0x86663de5DbD3b915De208145b2Cc66d02Bd0243B

To:

0x3935D093E5d65C91d20658182a6DC66Eb9D89542

Value:

0 ETH

Transaction Fee:

0.00004485494614833 ETH

Gas Price:

1.552611497 Gwei (0.000000001552611497 ETH)

Gas Limit & Usage by Txn:

29,238 | 28,890 (98.81%)

Gas Fees:

Base: 0.052611497 Gwei | Max: 1.568174188 Gwei | Max Priority: 1.5 Gwei

Burnt & Txn Savings Fees:

Burnt: 0.00000151994614833 ETH (\$0.00)Txn Savings: 0.00000044960614299 ETH (\$0.00)

Other Attributes:

Txn Type: 2 (EIP-1559)Nonce: 5Position In Block: 28

Input Data:

Function: transferOwnership(address newOwner) ***
MethodID: 0xf2fde38b
[0]: 00
View Input AsDecode Input DataView In Decoder

Question Y :

Pour sécuriser l'appel de la fonction addCandidate, il faut restreindre son accès à une adresse spécifique ou à une white liste de candidat