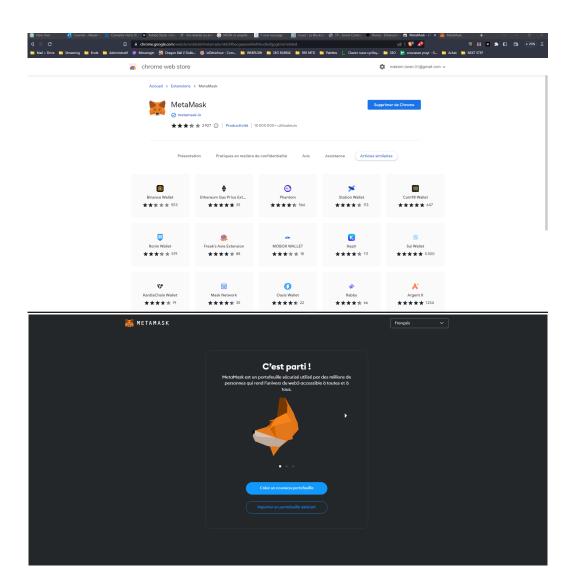
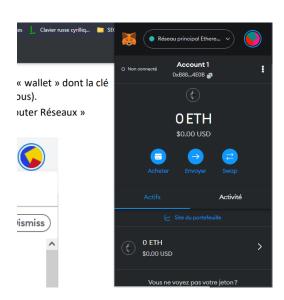
TARAN MAXIM A2MSI - TP1: BlockChain

a)

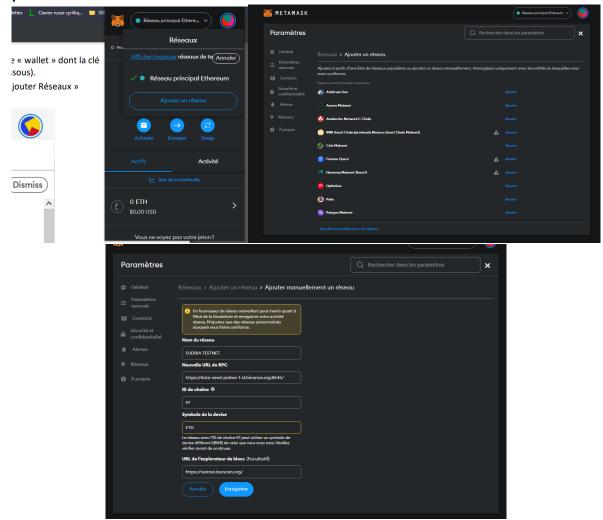
b)



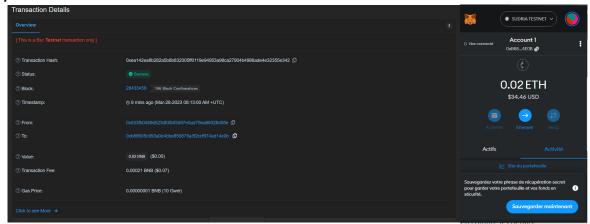
c)



d)



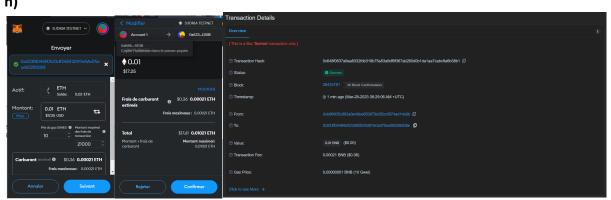
e)



g)

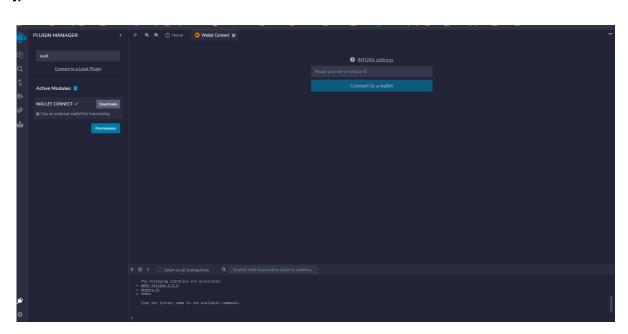


h)

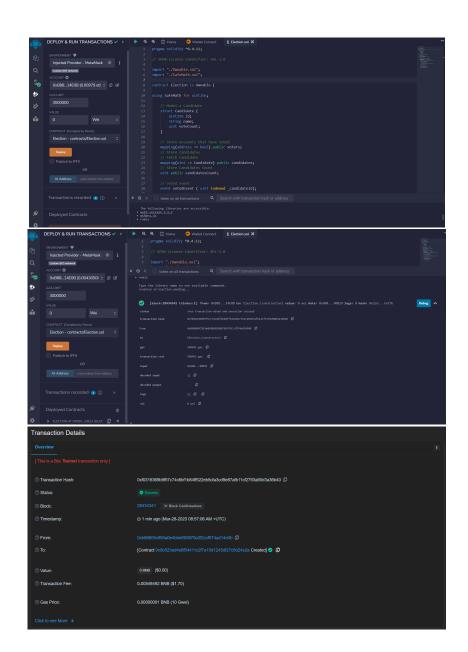


i)

j)



m)

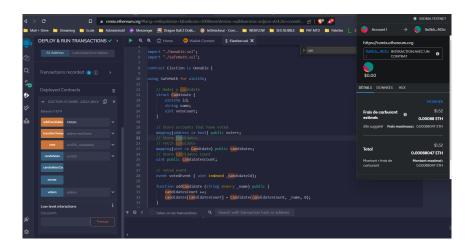


Frais: 0.00548492 BNB (\$1.70)

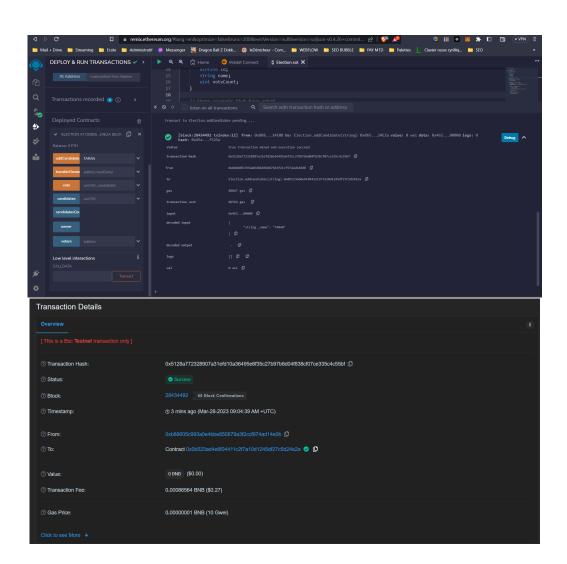
Quelle est l'adresse public de votre smart contract?

0x0b523ad4e6f04411c2f7a10d1245df27c5d24e2a

n)



o)



p)

```
call to Election.candidates errored: Error encoding arguments: Error: invalid BigNumber string (arguments"value", values", code-INVALID_ARGUMENT, version-bignumber/5.5.0)

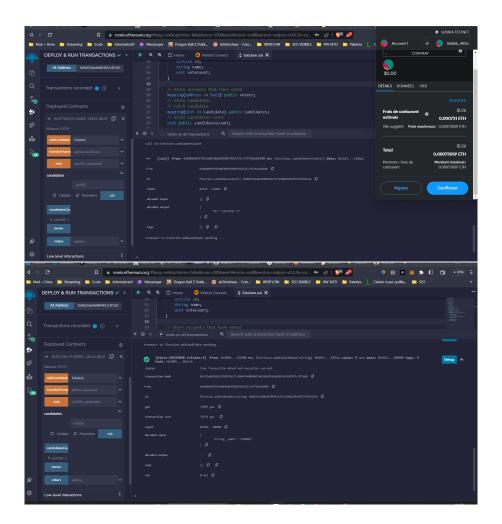
call to Election.candidatesCount

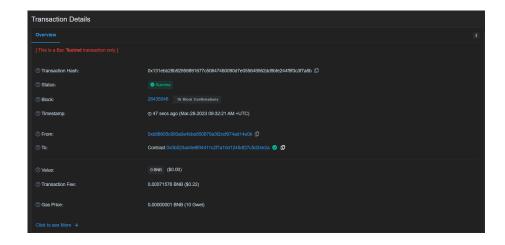
call [call] from: 0x088605C993a0E48bE850879A3f2Ccf974Ad14F00 to: Election.candidatesCount() data: 0x2d3...5a8a2

from 0x088605C993a0E48bE850
```

ID:1

q)





r)



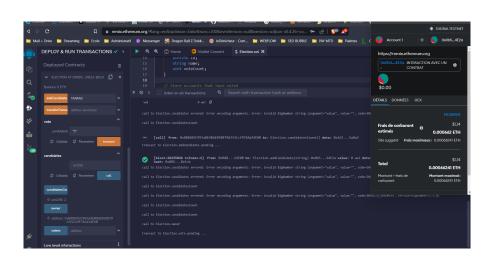
ID:2

s)



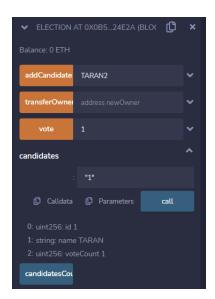
Adress: 0xB88605C993a0E4BbE850879A3f2Ccf974Ad14E0B

t)

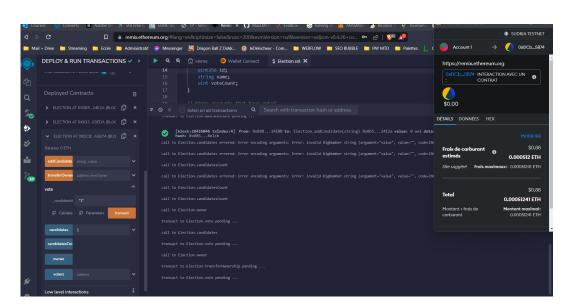


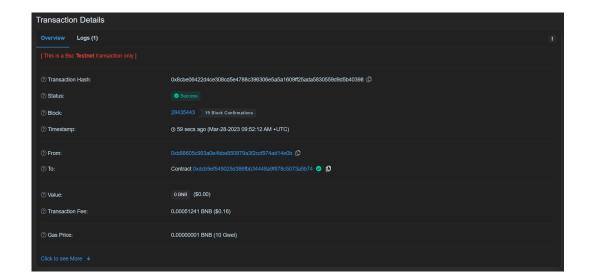


u)

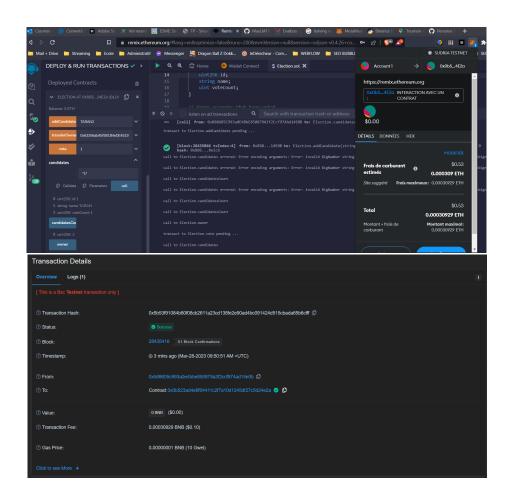


v)





w)



x)

La bibliothèque Ownable.sol permet de restreindre l'accès à certaines fonctions du contrat aux seuls propriétaires autorisés.

Pour sécuriser l'appel de la fonction addCandidate, on peut ajouter une directive d'importation pour la bibliothèque Ownable.sol dans votre contrat et modifier la fonction addCandidate pour inclure une vérification de propriété.

```
y)
```

Avant:

```
function addCandidate (string memory _name) public {
    candidatesCount ++;
    candidates[candidatesCount] = Candidate(candidatesCount, _name, 0);
}
```

Apres:

