RevoLUT

Blind Counting Sort - 2: Reconstruire tableau trié

$T = [5,3,4,2,3,4,0,4]$

$C = [0,0,0,0,0,0,0,0]$

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$R = [0,2,3,3,4,4,4,5]$

```
i = j = 0, R = [0,…,0]

For 2n times:

    If C[j] is null:

        j += 1

    else:

        BlindArrayAdd(R, i, j)

        BlindArrayAdd(C, j, -1)

        i += 1
```

Benchmarks

Résultat expérimentaux

	Array Size			
	4	**8**	**16**	**32**
Direct Sort (Cetin)	500ms	5s	50s	7m
Direct Sort (TFHE-rs)	2s	10s	40s	2m
Simple Sort (TFHE-rs)	1s	5s	23s	104s
Bitonic Sort (TFHE-rs)	1s	5s	17s	52s
Blind Counting Sort	400ms	1s	4s	18s
Double Blind Permutation	120ms	400ms	1s	5s