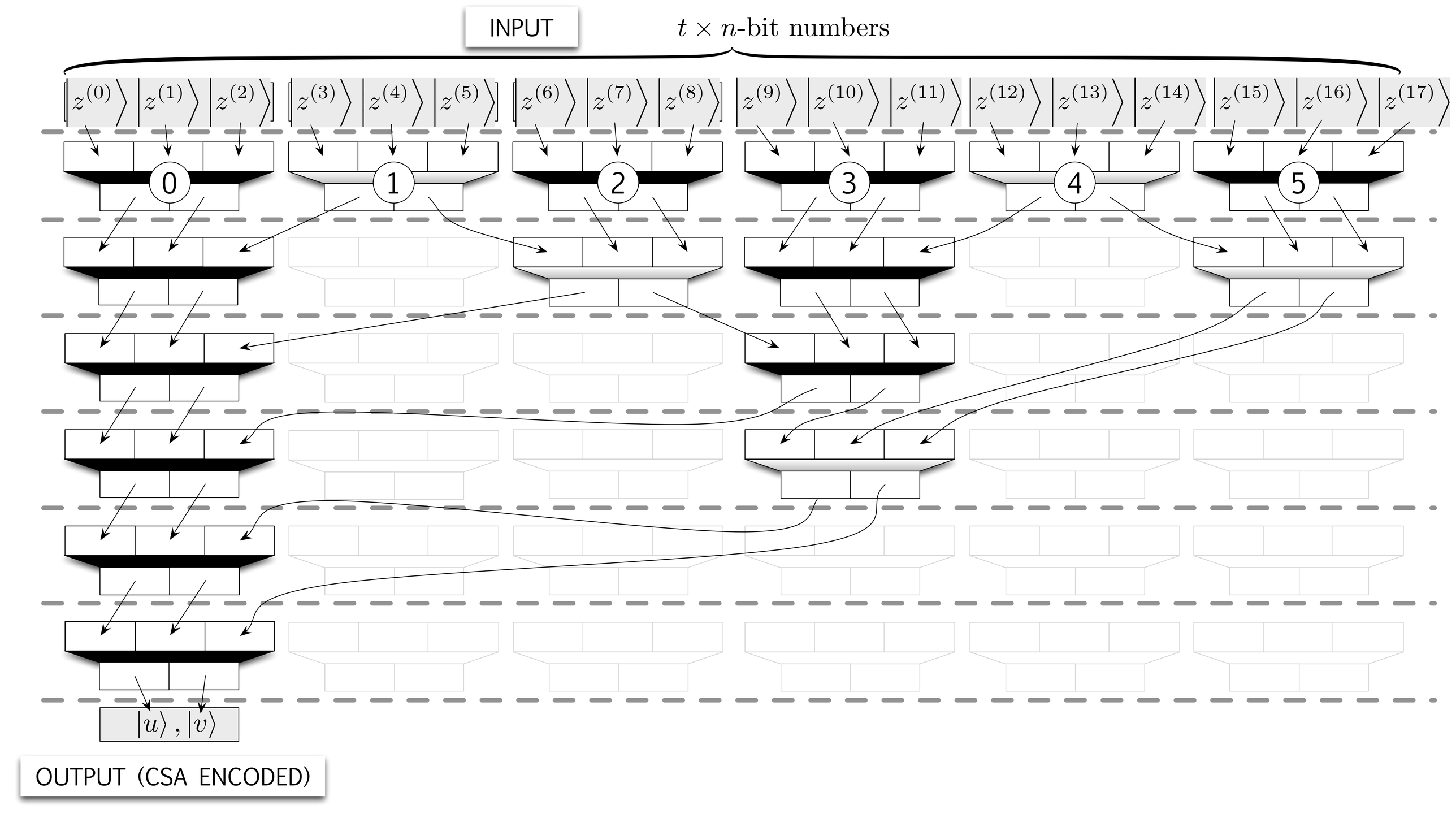
INPUT
$t \times n$-bit numbers
$|z^{(0)}\rangle$ $|z^{(1)}\rangle$ $|z^{(2)}\rangle$
$|z^{(3)}\rangle$ $|z^{(4)}\rangle$ $|z^{(5)}\rangle$
$|z^{(6)}\rangle$ $|z^{(7)}\rangle$ $|z^{(8)}\rangle$
$|z^{(9)}\rangle$ $|z^{(10)}\rangle$ $|z^{(11)}\rangle$
$|z^{(12)}\rangle$ $|z^{(13)}\rangle$ $|z^{(14)}\rangle$
$|z^{(15)}\rangle$ $|z^{(16)}\rangle$ $|z^{(17)}\rangle$
0
1
2
3
4
5
$|u\rangle$, $|v\rangle$
OUTPUT (CSA ENCODED)