Binary representation x(0) = y(0) = 000x(1) = y(1) = 001Interleaving (0,0)(1,0)x(0) = 000x(1) = 001y(0) = 000y(0) = 000

=> 00010

x(1) = 001

y(1) = 001

 $\Rightarrow 000011$

(1,1)

 $\Rightarrow 000000$

x(0) = 000

y(1) = 001

 $\Rightarrow 000001$

(0,1)