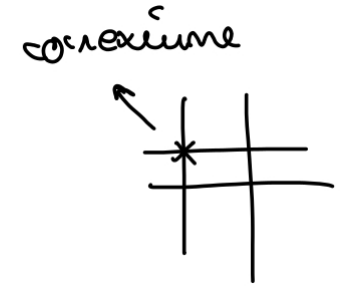
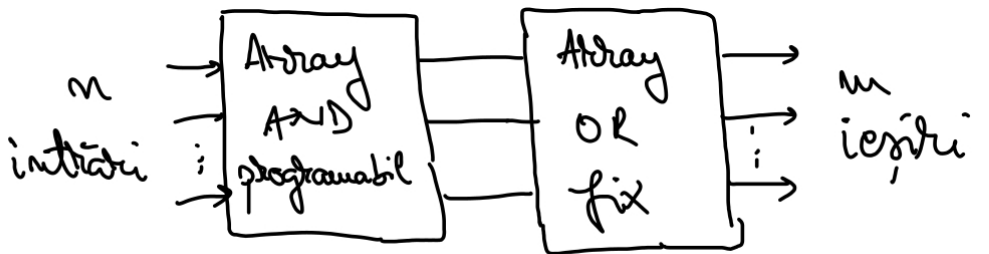


Seminar nr. 6:

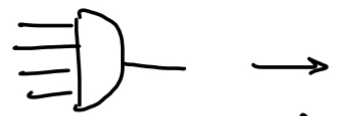
PLD - programmable logic device

PAL, PLA

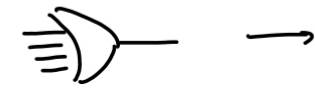
PAL (Programmable Array Logic):



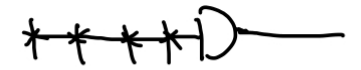
Standard AND



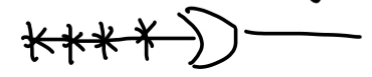
Standard OR



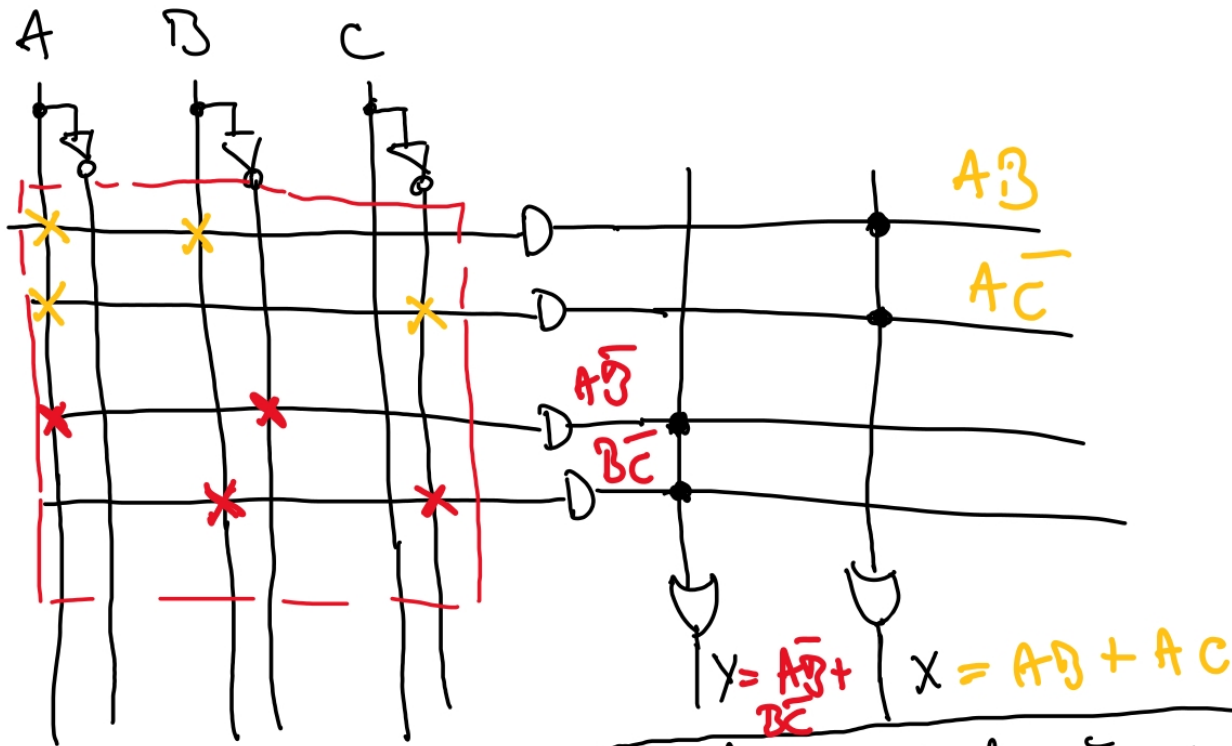
AND Array



OR Array



Ex: implementati functiile $X = AB + AC$ si $Y = A\bar{B} + B\bar{C}$

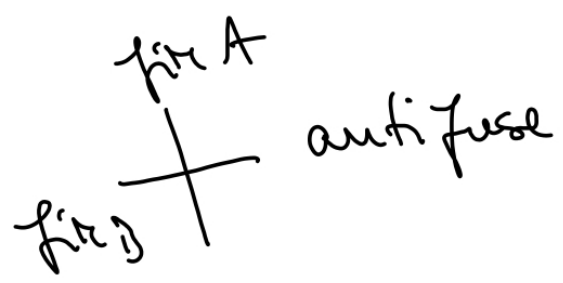


programarea PAL:



1) dacă vrem ca firele A și B să fie conectate, lăsăm acel "fuse" intact.

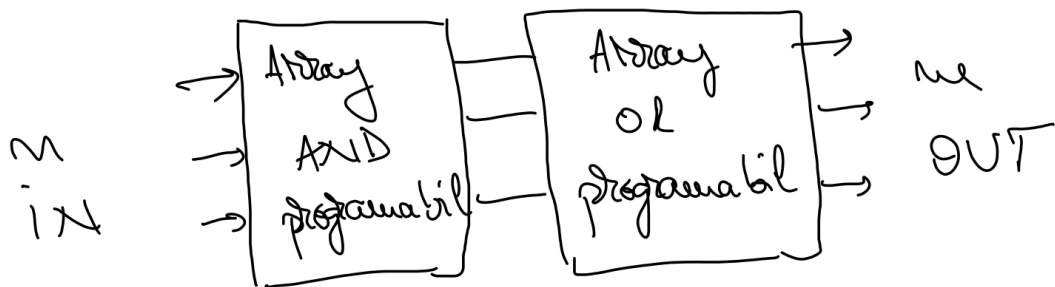
2) Dacă vrem ca firul A și firul B să nu fie conectate, vom arde acel "fuse".



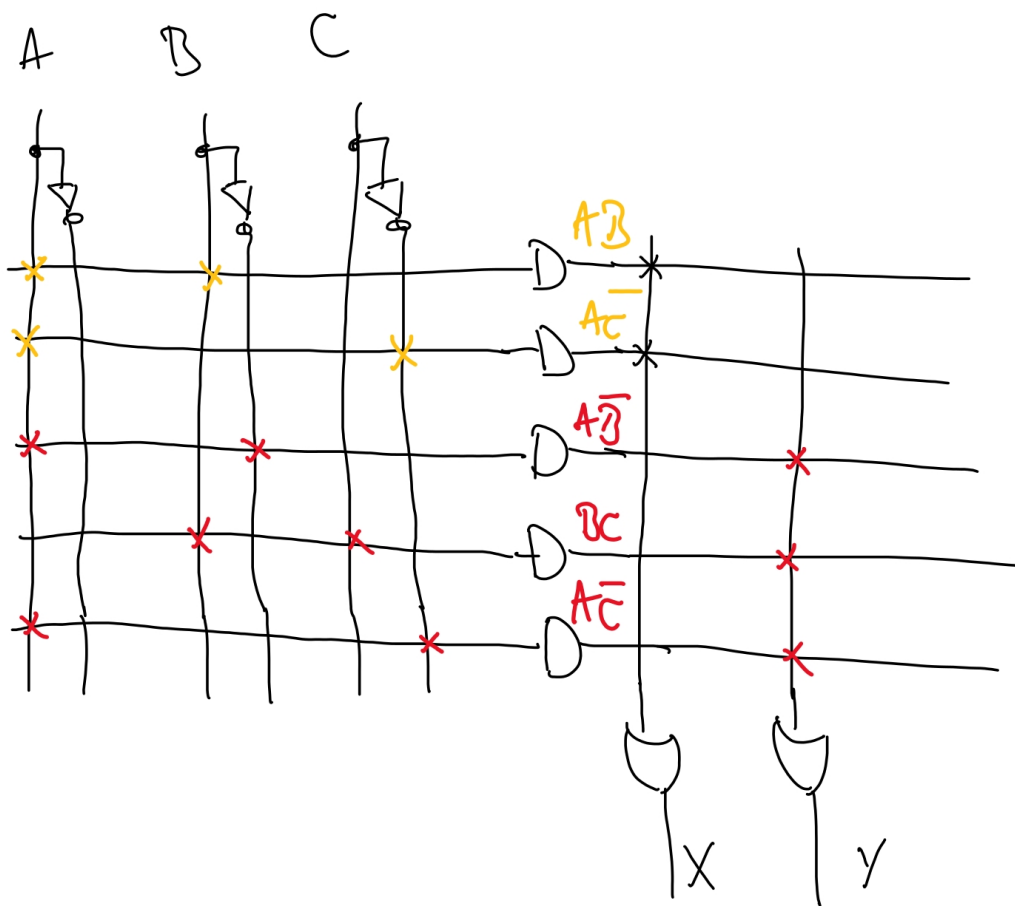
1) Dacă vrem întrerupere → "anti fuse" intact

2) Dacă vrem scurt → "anti fuse" străpuns.

PLA (programmable logic array)



Ex: implementati functiile $X = AB + A\bar{C}$ si $Y = A\bar{B} + BC + A\bar{C}$ folosind PLA



Numărător simțom pe 2 biți

