كلية الهندسة بشبرا
FACULTY OF ENGINEERING AT SHOUBRA

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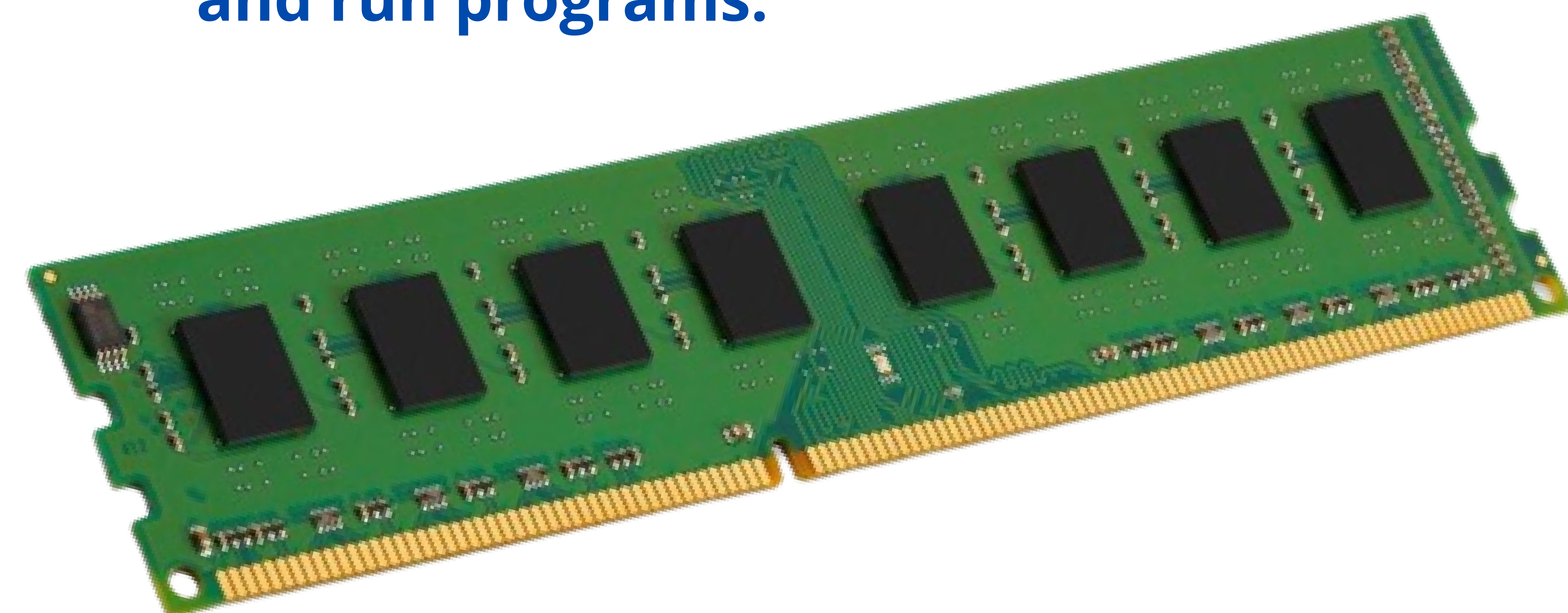Learn Today ... Achieve Tomorrow
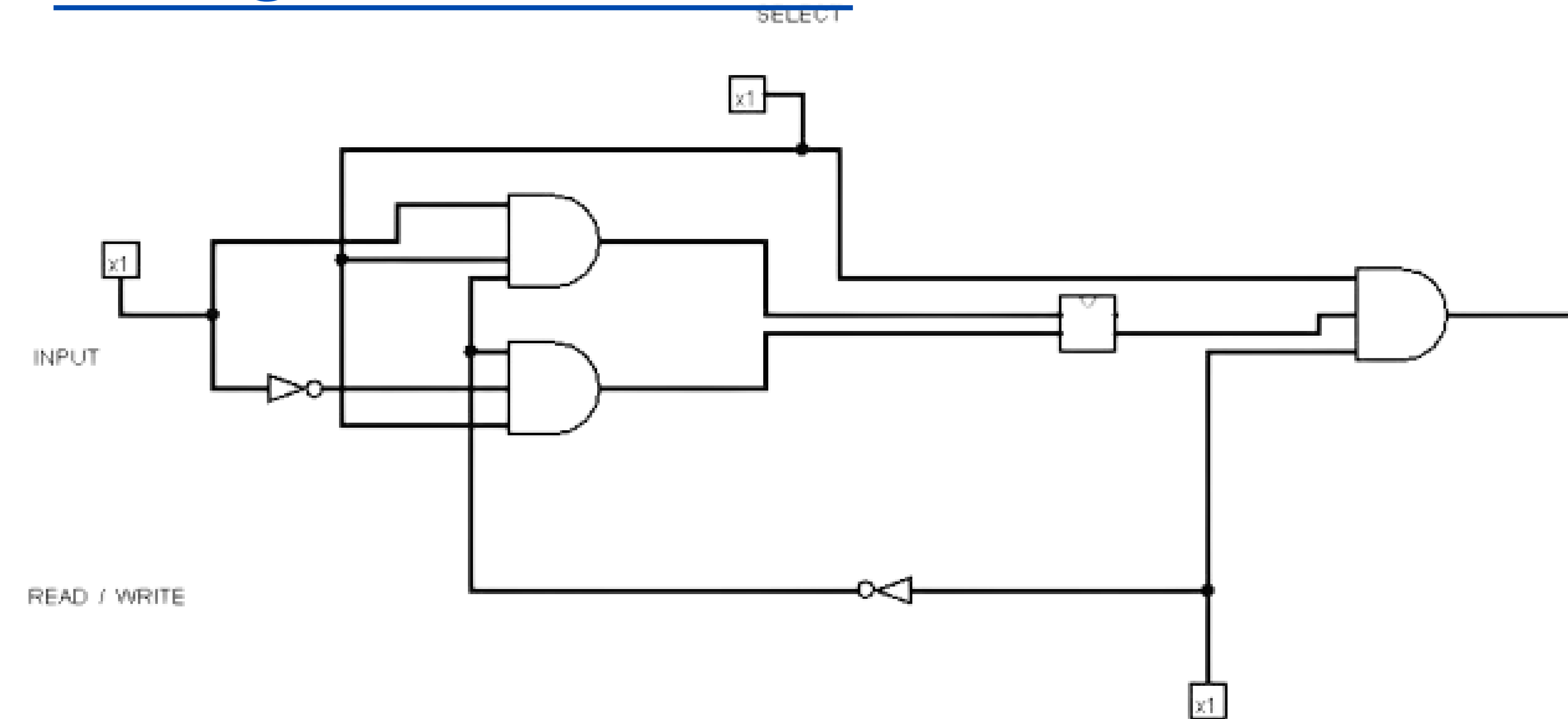www.bu.edu.eg

RAM access memory

CCED 2026

Definition:

RAM (Random Access Memory) is a type of computer memory that allows data to be accessed randomly, meaning any byte of memory can be accessed without touching the preceding bytes. It is a volatile memory, which means that its contents are lost when the power is turned off. RAM is used by the computer's operating system and applications to temporarily store data and instructions while they are being processed. The more RAM a computer has, the faster it can perform tasks and run programs.
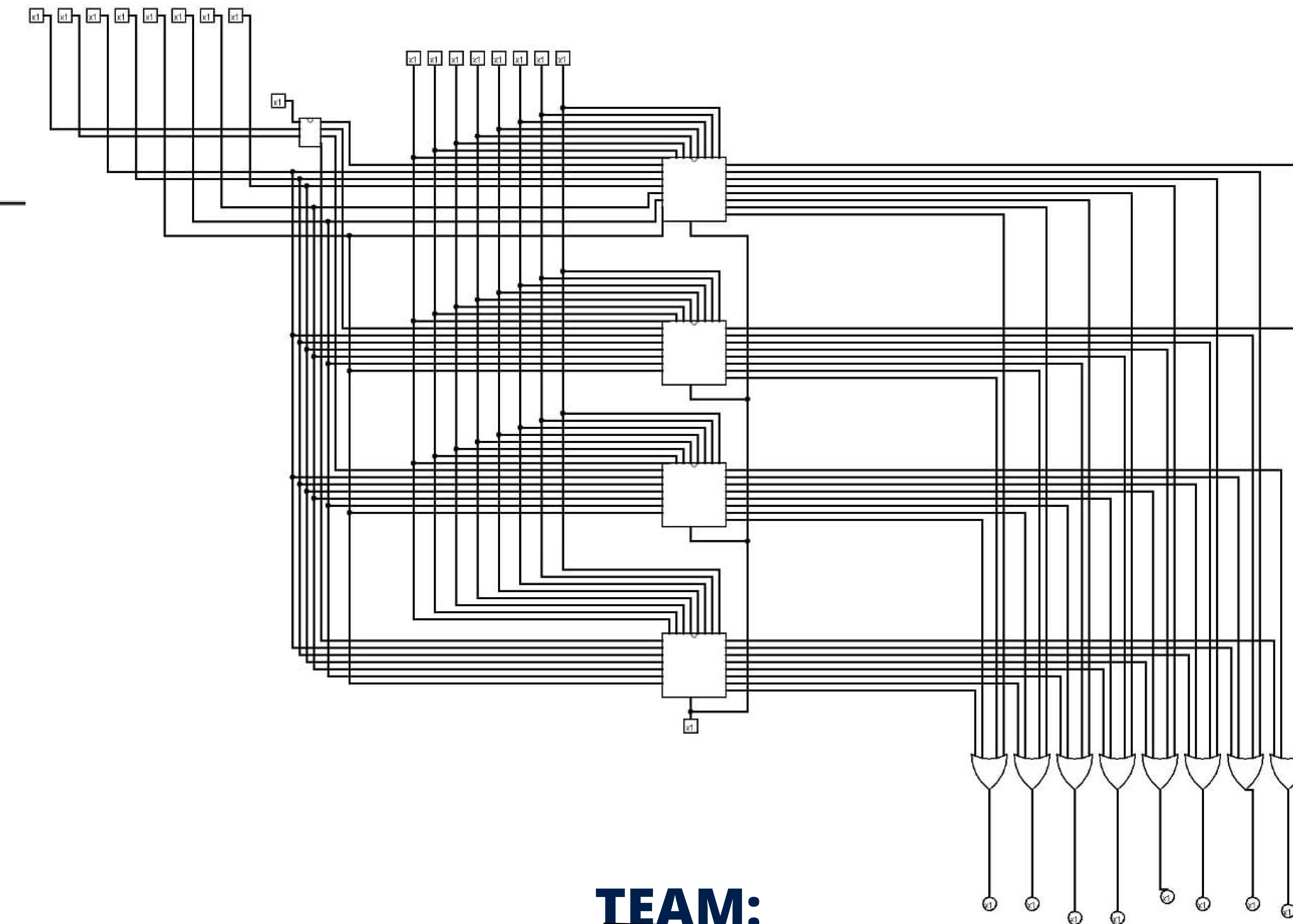

Design of one Cell:

This cell is composed of some of logic gates which the specific inputs controls it like: enable, r/w, input if enable is 0, it is off else it is on here squncing of depency goes to w/r if we read(1as input) date in the cell so, the saving data cell will appear to out note we can't read the data if we don't write it
If the write (0asinput) then depend on the input
Here we use the D latch (basic mommy element)

The Whole Circuit: 265 BYTE

TEAM:

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