

Computer Logic Design Course

Digital Logic Design

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January 8, 2021

1 Complements

Now we on...

1 Complements

Kind of Complements

There are two basic types of complements:

- 1 r 's complement
- 2 $(r - 1)$'s complement



r 's complement

If there is a number called N in base r and that has n number of digits in the integer part, then r 's complement of N will be:

$$r^n - N \quad N \neq 0$$

Sample

10's complement of $(52520)_{10}$ is $10^5 - 52520 = 47480$