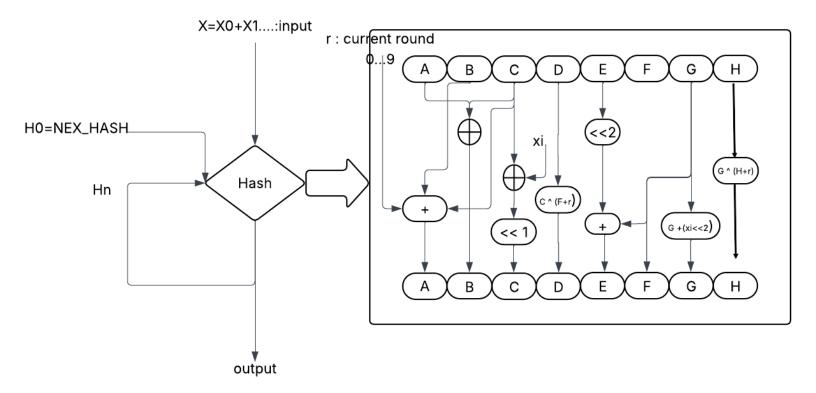
NEX_HASH Hash Function

- NEX_HASH processes an arbitrary length message and produces a (8 bytes) 64bit output.
- x denotes a sequence of bytes (unsigned characters means from 0x00 to 0xff) x0, x1, ..., xn. These characters are are processed sequentially by the H function which
- o consists of 10 rounds, each which perform identical operations from 0 to 9
- o takes a byte (an unsigned character) in xi and the output of the previous round and generates a sequence of 8 bytes denoted as A, B, C, D, E, F, G, H
- The hash digest is then defined as an out of the last iteration of the H function
- H0 is the initial seed value. Let Ho = {'N', 'E', X', '_, 'H', 'A', 'S', 'H'}
- \circ Hi+1 = H(Hi, xi) for i = 0, 1, ..., n-1, n the is the length of the string
- Internal Structure of the H function:
- << and >> are the bitwise shift left and right operations respectively
- & is a bitwise AND operator
- o ^ is a bitwise XOR operator Final Hash is then converted to hex for each byte in the digest



• The Password hash we need to crack is: f903467a43c75b9f

Flagformat : nexus{password}