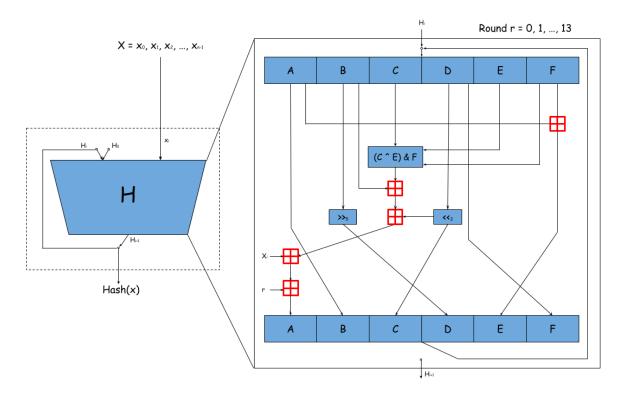
RITSEC HASH



- RITSEC HASH processes an arbitrary length message and produces a 48-bit output.
- x denotes a sequence of bytes (unsigned characters) $x_0, x_1, ..., x_n$. These characters are are processed sequentially by the H function which
 - o consists of 13 rounds, each which perform identical operations
 - takes a byte (an unsigned character) in x_i and the output of the previous round and generates a sequence of 6 bytes denoted as A, B, C, D, E, and F
- The hash digest is then defined as an out of the last iteration of the H function
 - o H_0 is the initial seed value. Let $H_0 = \{'R', 'l', 'T', 'S', 'E', 'C'\}$
 - \circ $H_{i+1} = H(H_i, x_i)$ for i = 0, 1, ..., n-1
- Internal Structure of the H function:
 - Each of A, B, C, D, E, and F represent a single byte (unsigned char)
 - << and >> are the bitwise shift left and right operations respectively
 - & is a bitwise AND operator
 - ^ is a bitwise XOR operator

Final Hash is then converted to hex for each byte in the digest

Hash check:

"RITSEC_CTF_2021" → 3ba50807aa02