From the Hash function shown in figure 1, the size of input is 1 block (9 bits in length). The input (1 block) will be separated into 3 words which have 3 bits per 1 word. Assume that the rule of word expansion is that

The 4^{th} word will be $W_3 = (W_0$ *ex-or* $\mathbf{RotShift}_{2\text{-}2}(W_1)$ *ex-or* $W_2)$

where

$\mathbf{RotShift}_{x\text{-}y}(W_i)$ is the x-bit Right Rotatation of W_i and then follow by Ex-or with the y-bit Left Shift of W_i

Find the output (Message Digest) of the Hash function when the input is "**001 111 101**"

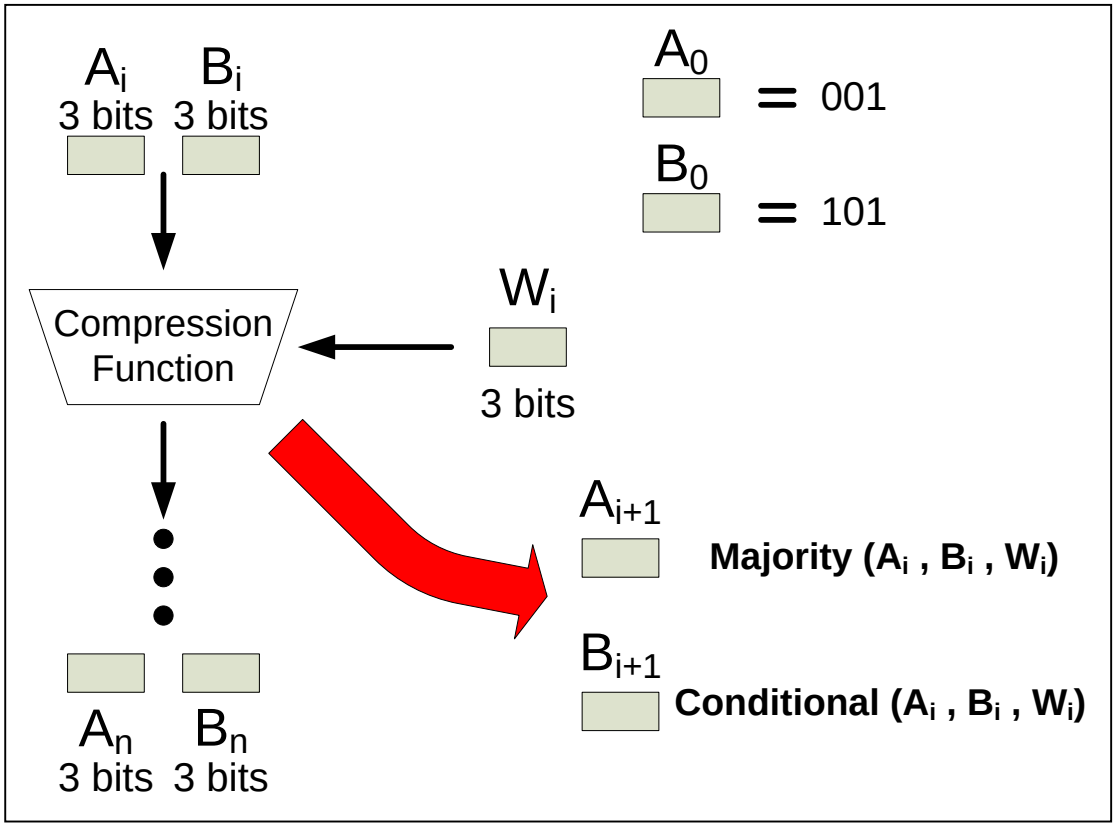

Figure 1 Hash Function