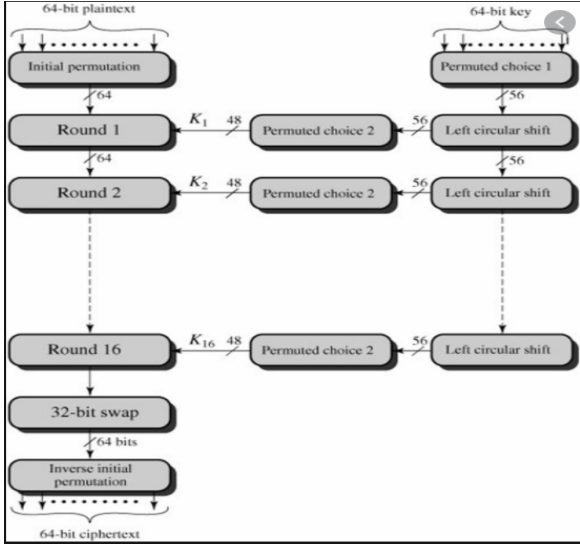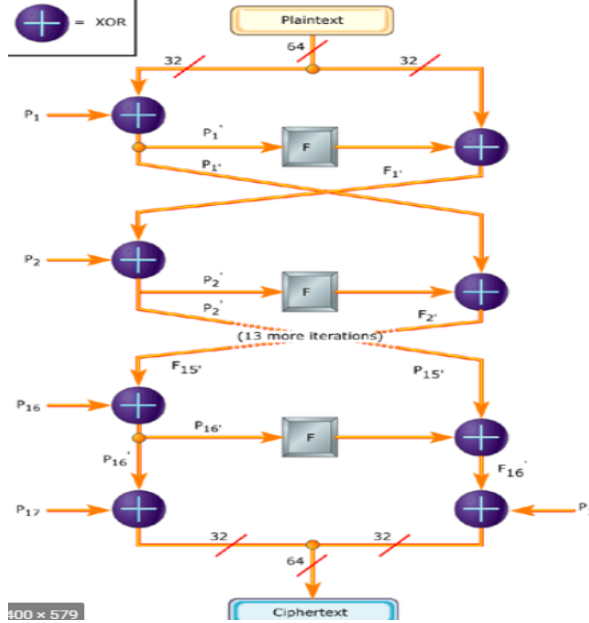# ALGORITHM CHARACTERISTICS OF DES AND BLOWFISH

Looking from an overall perspective, we can conclude the blowfish algorithm is more secure than DES, and produces best results for less processing time and rounds. To increase the key size of the blowfish algorithm from 128 to 448, it gives more privacy to the messages and provides high end data security when transmitting over any unsafe medium.

FACTORS	DES	BLOWFISH
DEVELOPED YEAR	It was developed in 1977.	It was developed in 2000.
BLOCK STRUCTURE	Block structure of Data Encryption Standard	Block structure of blowfish
KEY SIZE	56 bits	448 bits
CYPHER TYPE	Symmetric Block Cipher	Symmetric Block Cipher
BLOCK SIZE	64 bits	64 bits
SPEED	Slow	Fast
SECURITY	Not Secure Enough	Secure Enough
NUMBER OF ROUNDS	16	16
NUMBER OF S-BOXES	8	4
STRUCTURE	Feistel Network	Feistel Network
SWAPPING OF CONTENT	In this algorithm for every round(i+1) left is replaced by round(i)'s right.	In this algorithm for every round(i+1) right is replaced by round(i)'s left.