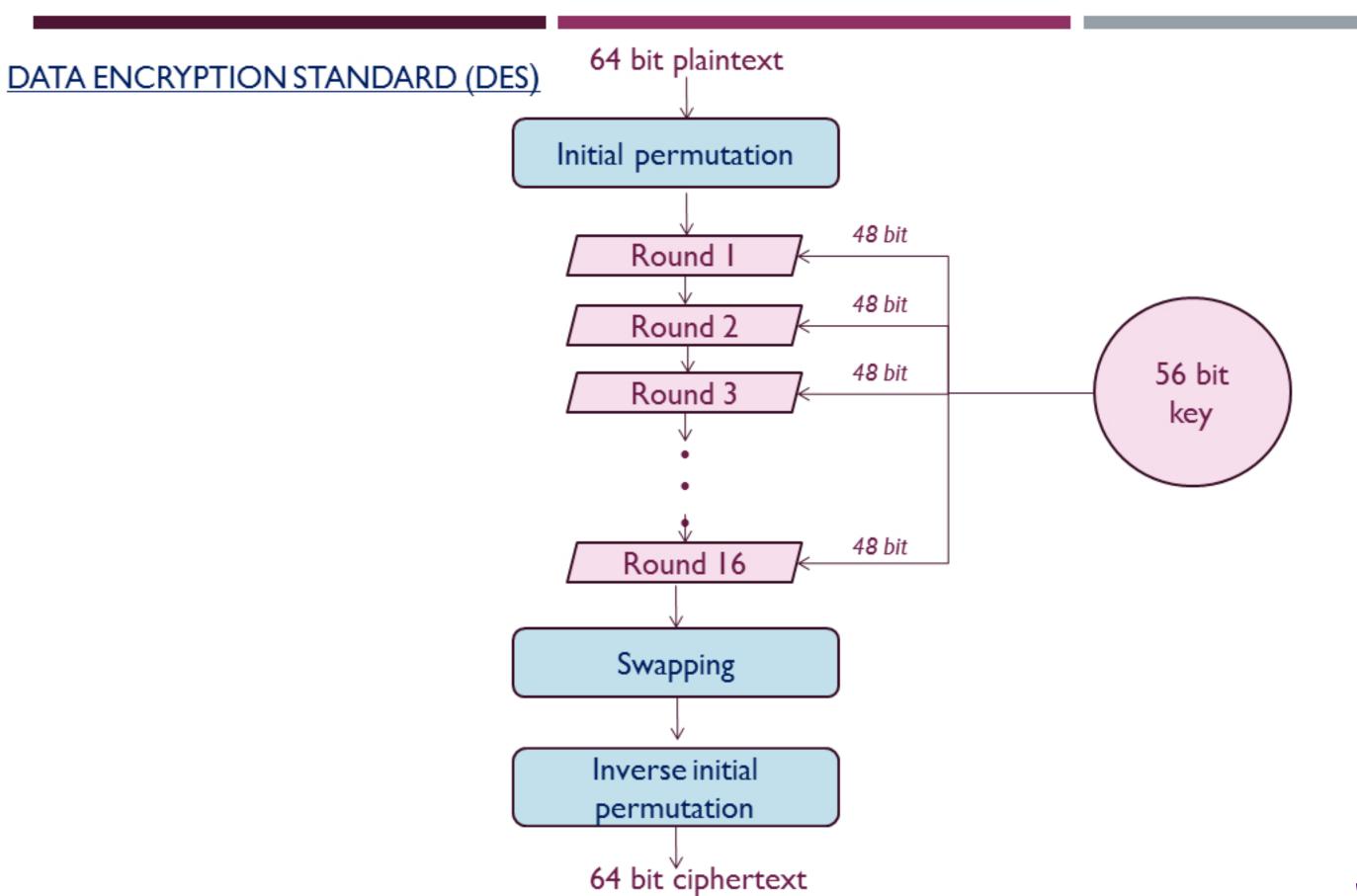
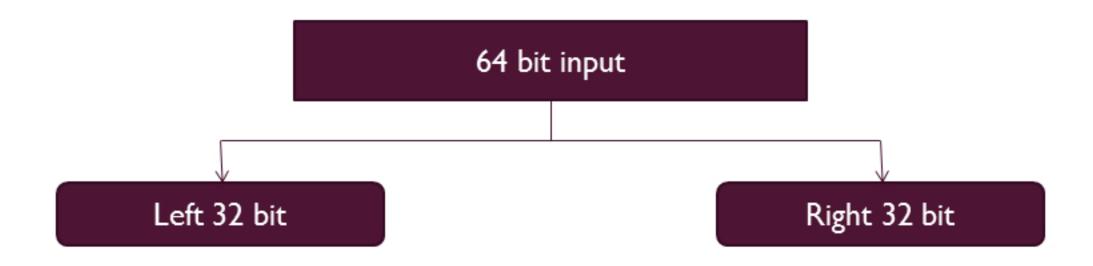
CRYPTOGRAPHY & NETWORK SECURITY

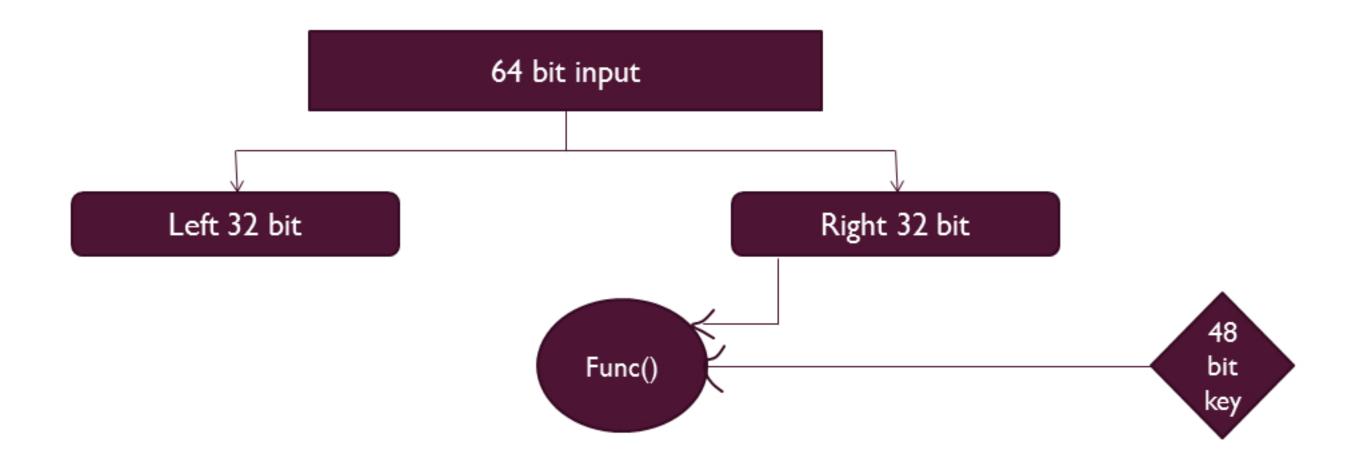
DATA ENCRYPTION STANDARD (DES)

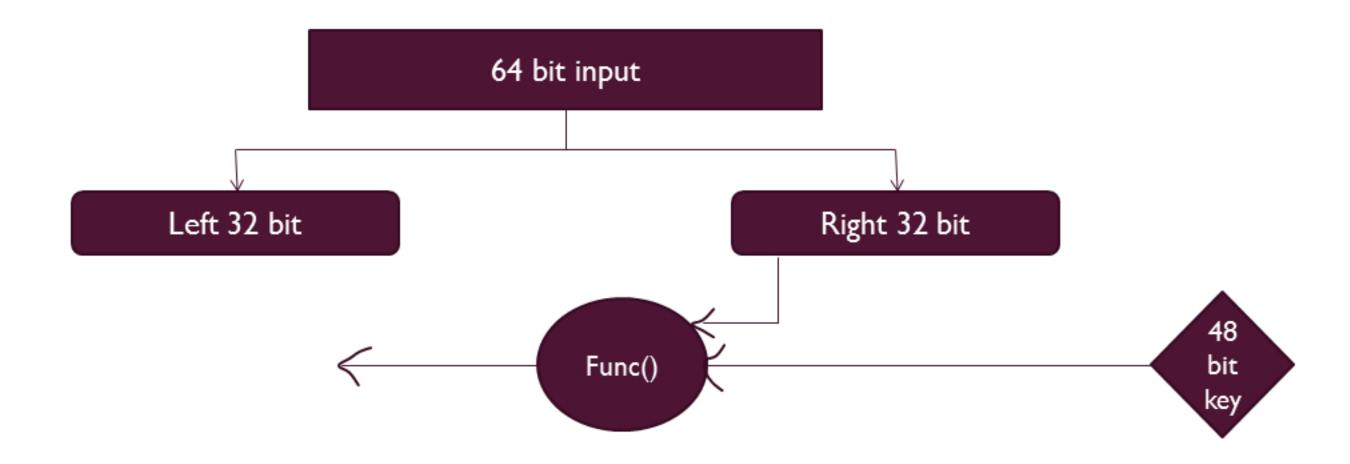
DATA ENCRYPTION STANDARD (DES)

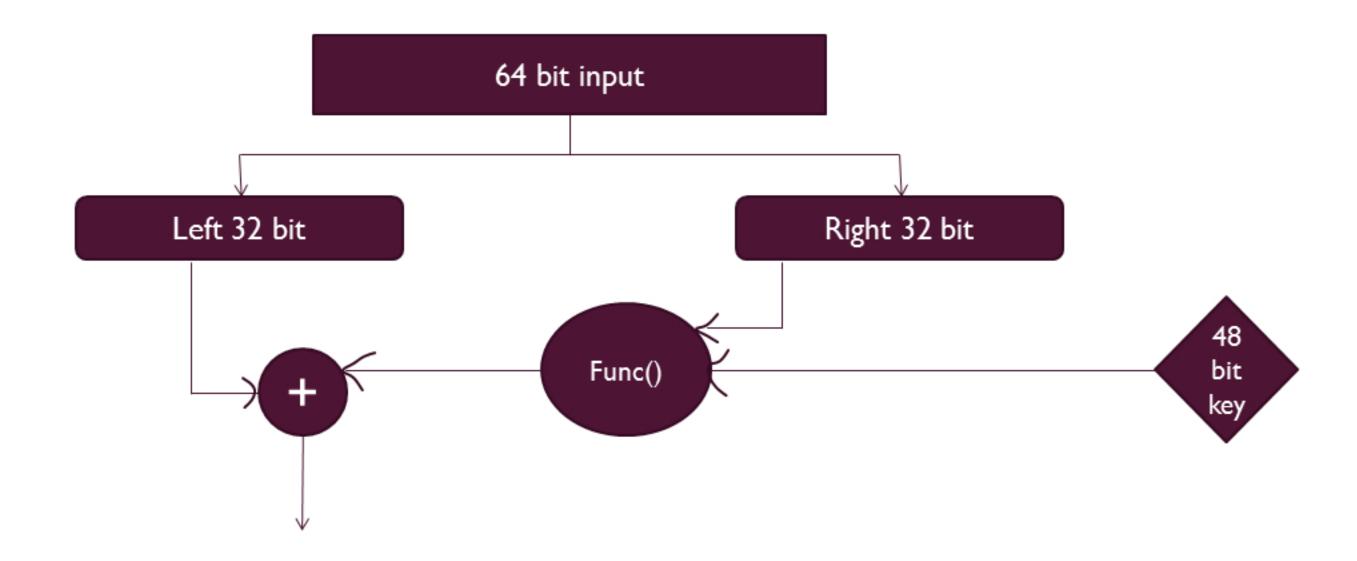
- Block cipher.
- Single key for encryption & decryption.
- 64 bit block data is used.
- 56 bit key is used.
- 16 rounds.

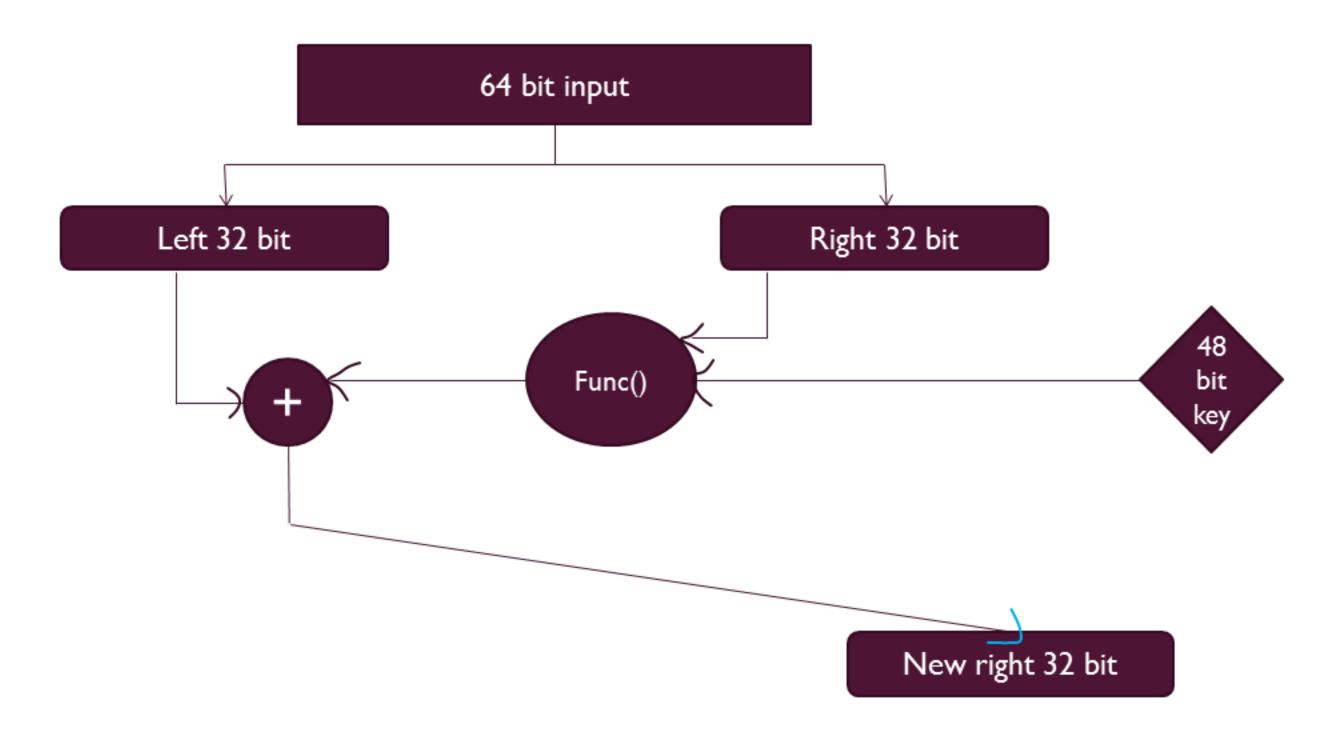




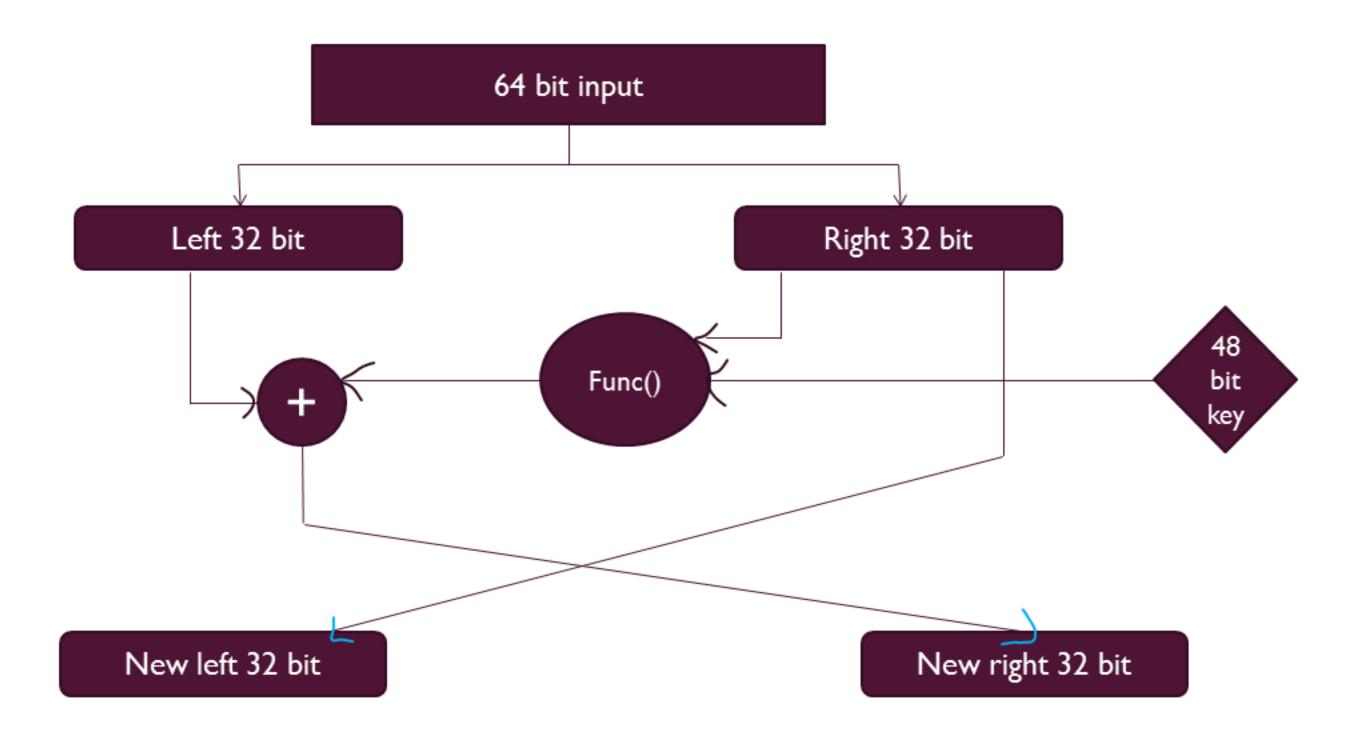




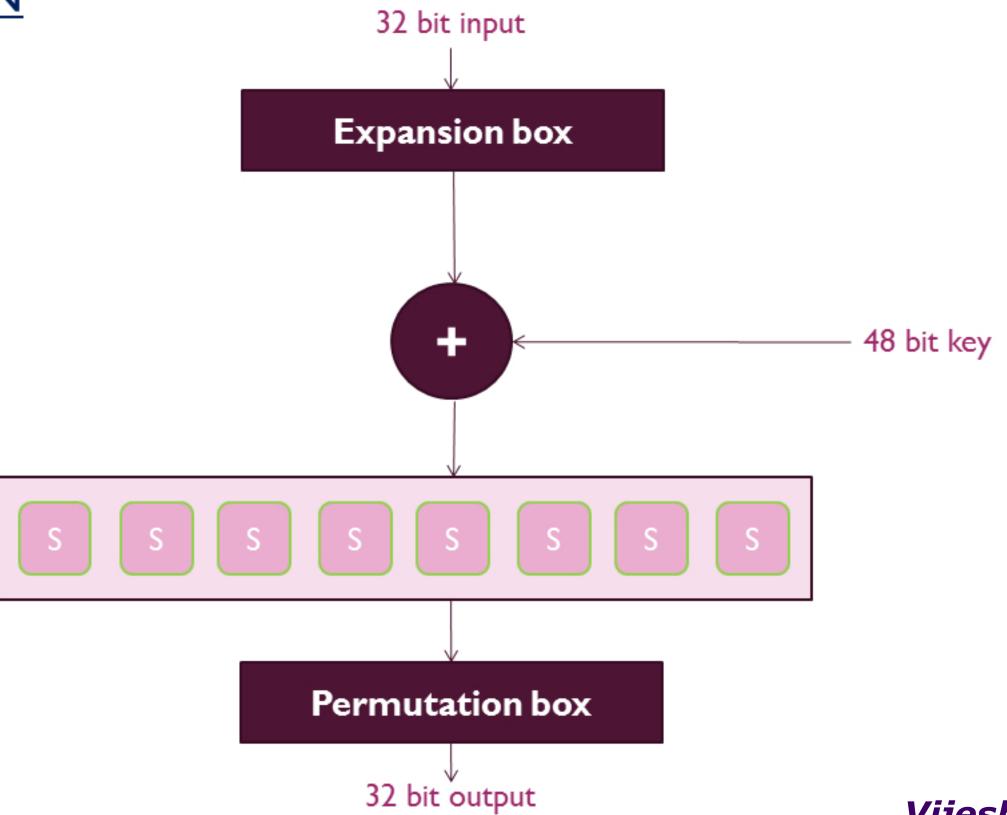




Viiesh Nair



FUNCTION DEFINITION



Let the 32 bit block is this;
DONTGIVETHEMONEYTOTHATPERSONEVER

DONT GIVE THEM ONEY TOTH ATPE RSON EVER

Let the 32 bit block is this;
DONTGIVETHEMONEYTOTHATPERSONEVER



GIVE







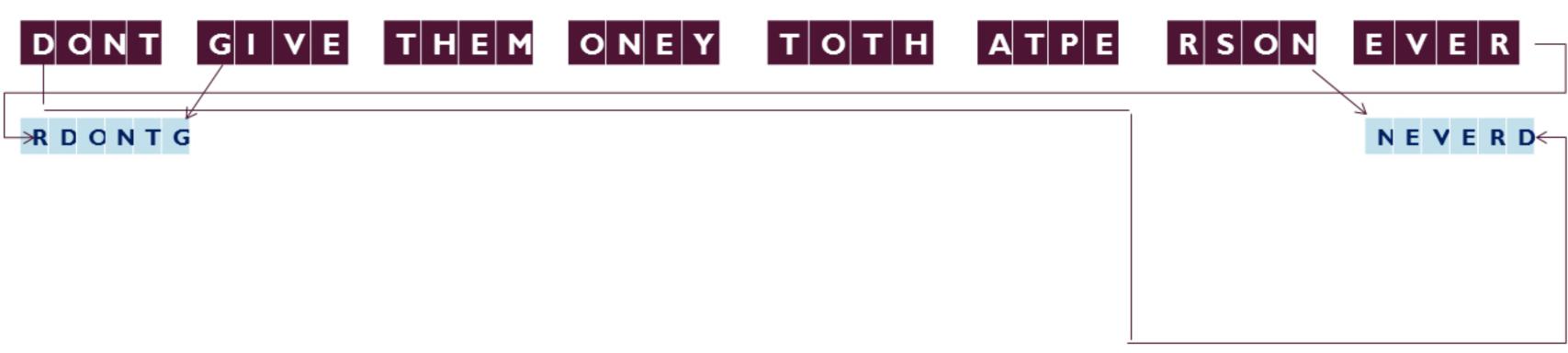
Let the 32 bit block is this;
DONTGIVETHEMONEYTOTHATPERSONEVER

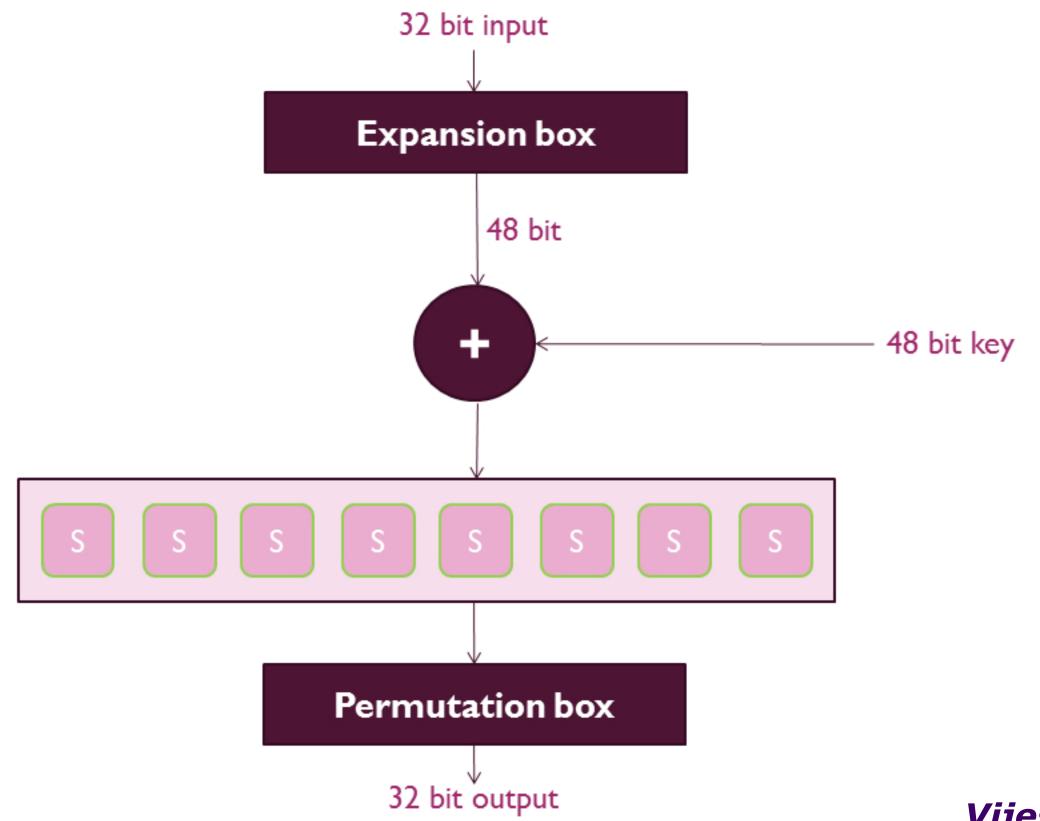


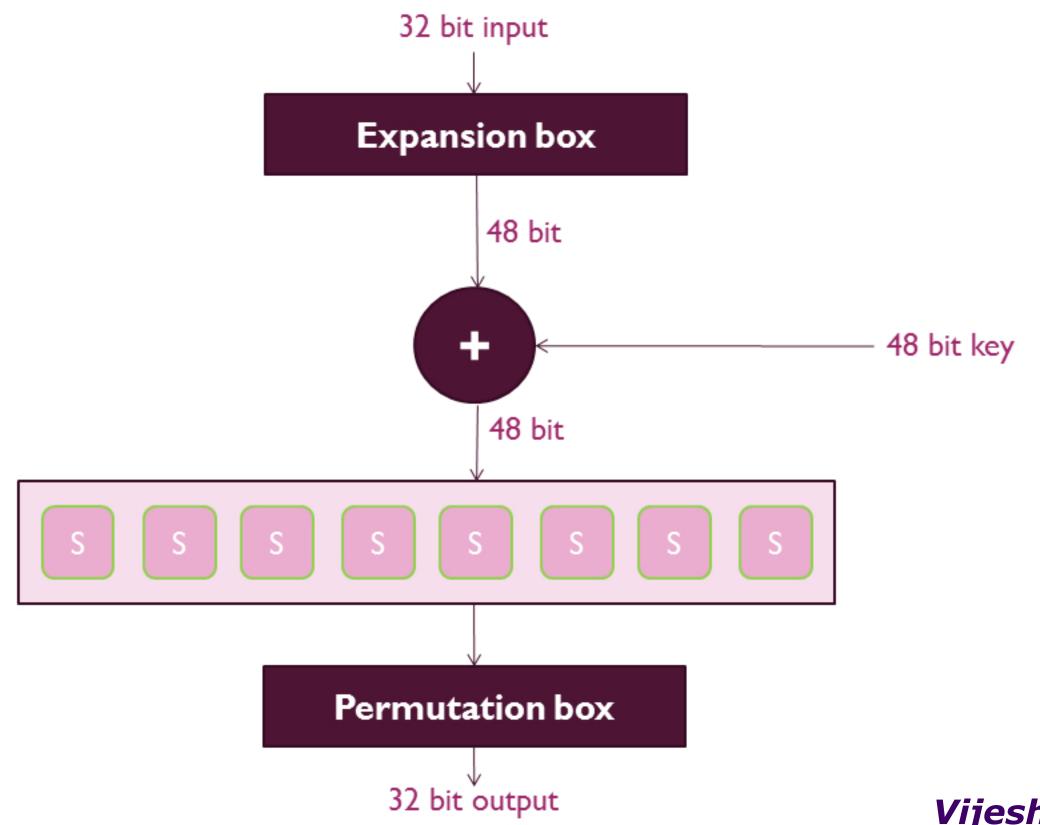
DONT

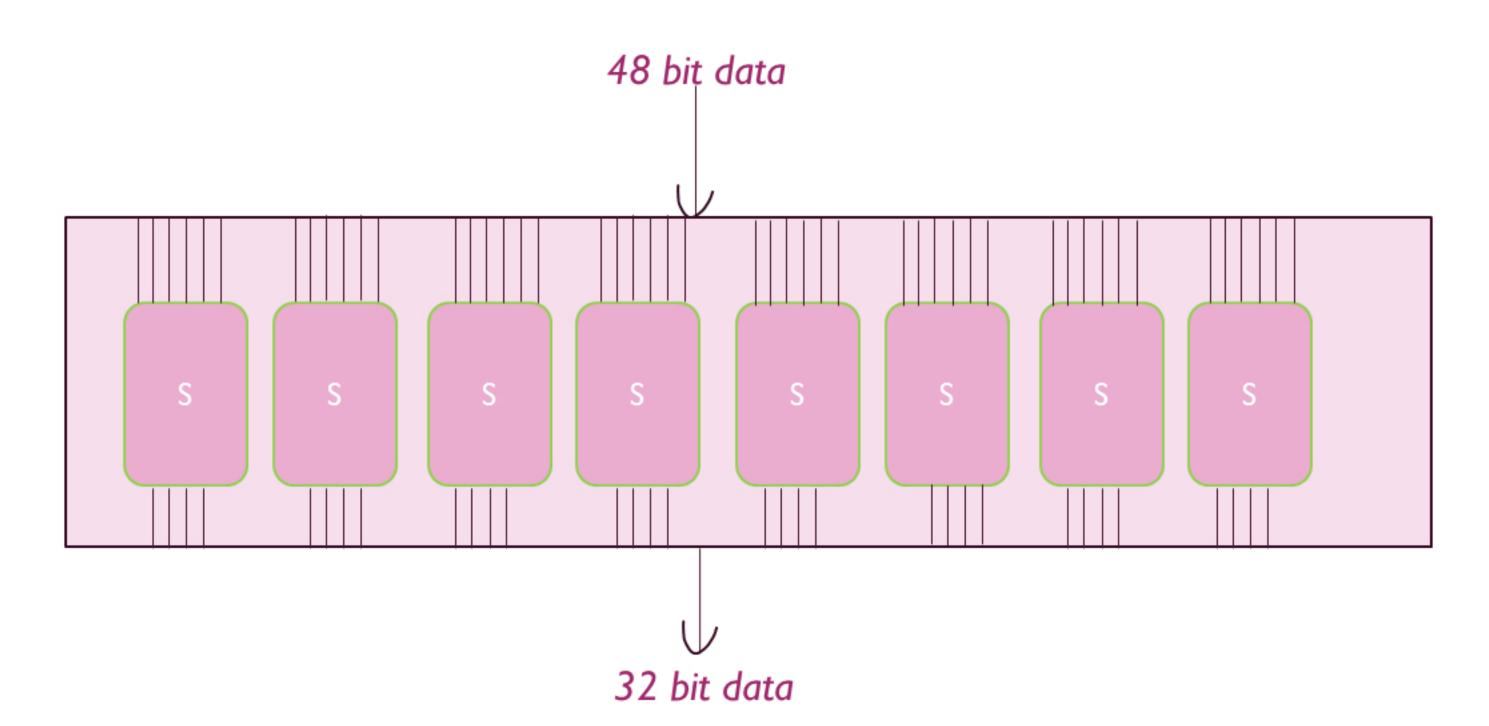
EVER

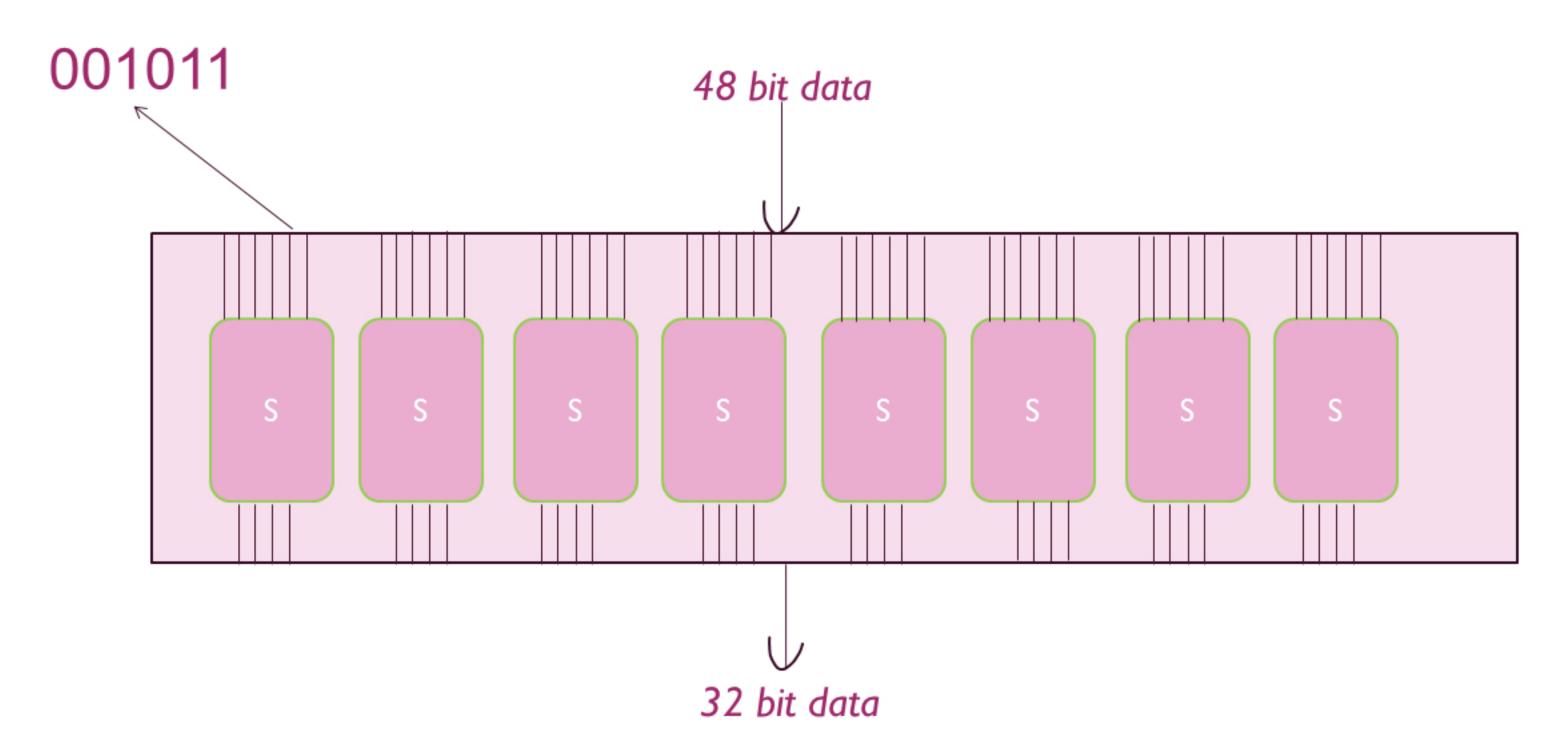






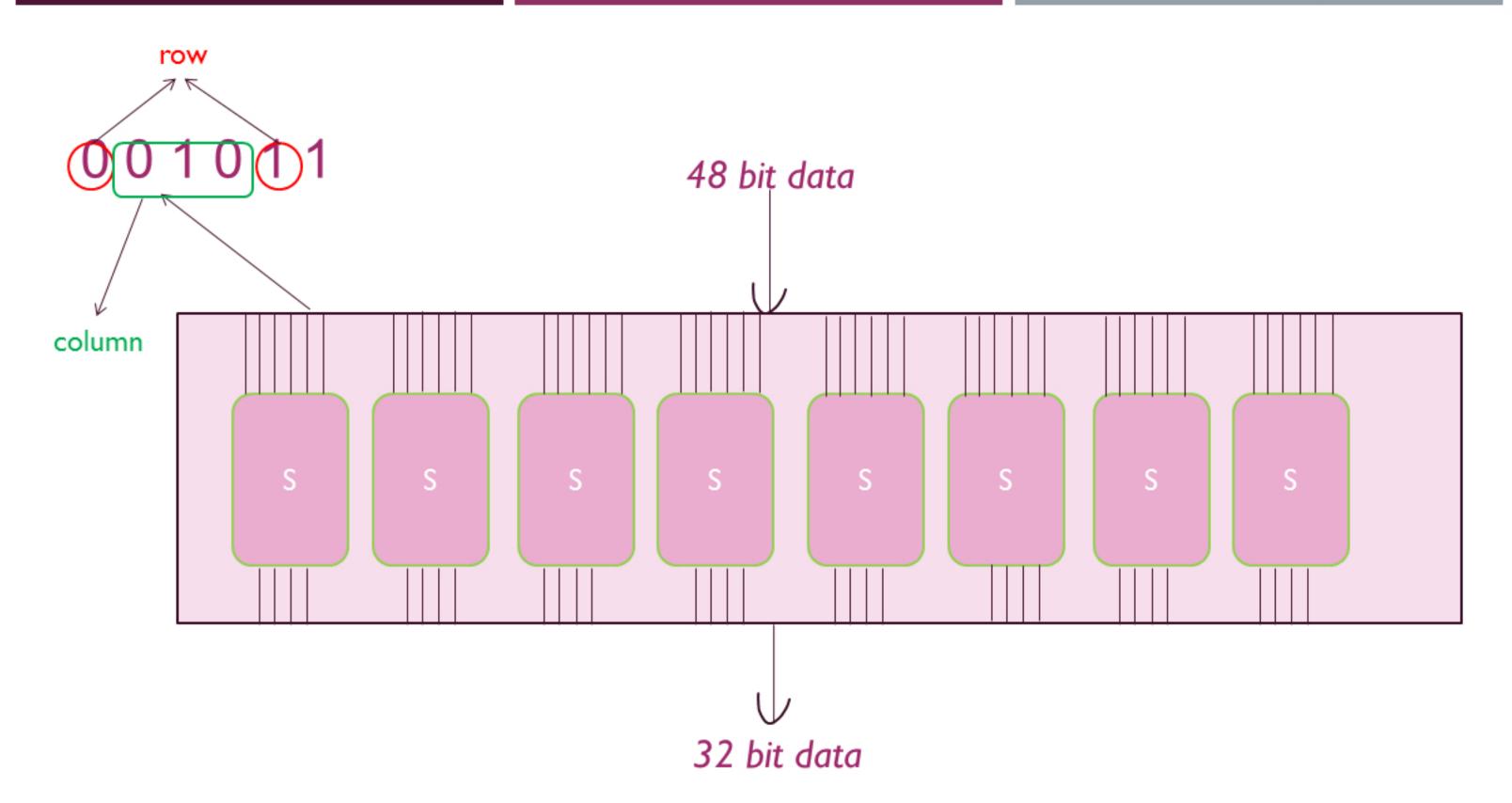






S BOX (Substitution Box)

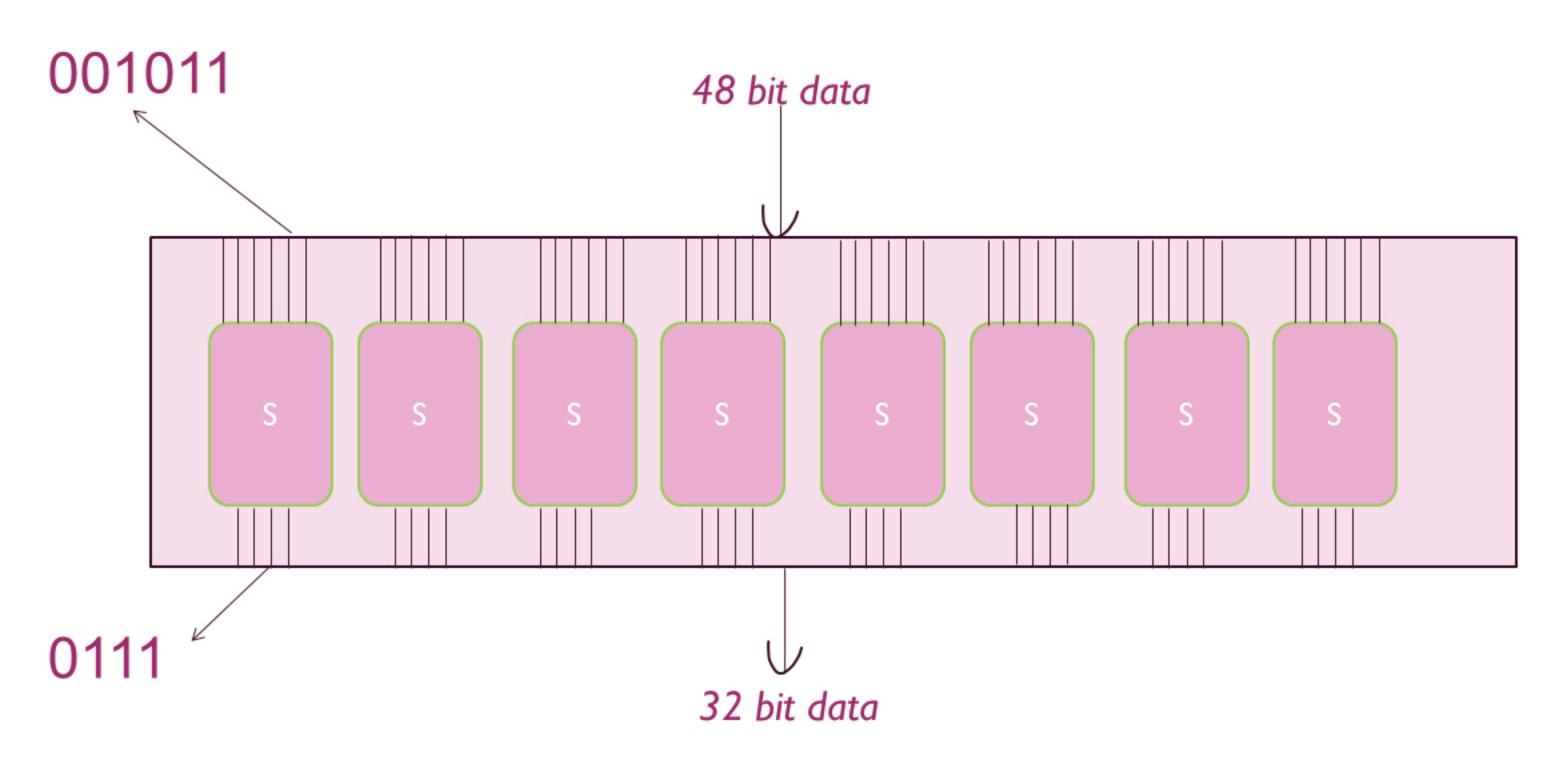
	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	Ш
00	0010	1100	0100	0001	0111	1010	1011	0110	1000	0101	0011	1111	1101	0000	1110	1001
00	0010	1100	0100	0001	0111	1010	1011	0110	1000	0101	0011	1111	1101	0000	1110	1001
01	1110	1011	0010	1100	0100	0111	1101	0001	0101	0000	Ш	1010	0011	1001	1000	0110
10	0100	0010	0001	1011	1010	1101	0111	1000	Ш	1001	1100	0101	0110	0011	0000	1110
П	1011	1000	1100	0111	0001	1110	0010	1101	0110	1111	0000	1001	1010	0100	0101	0011

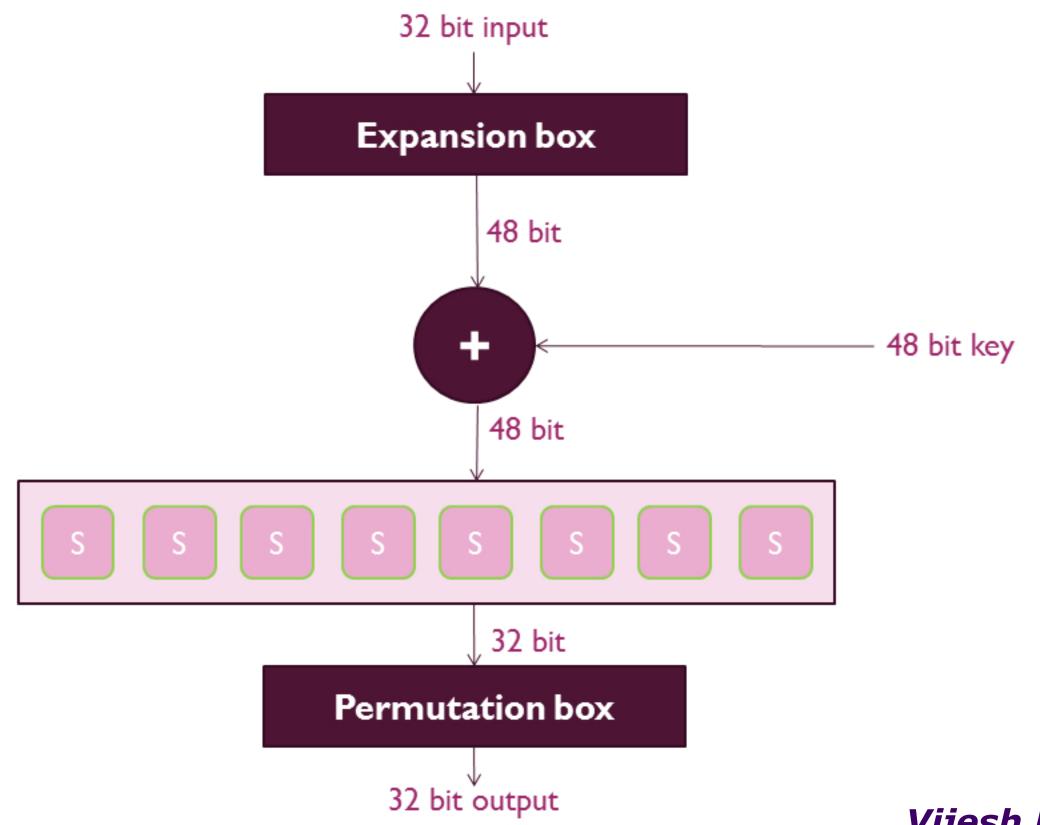


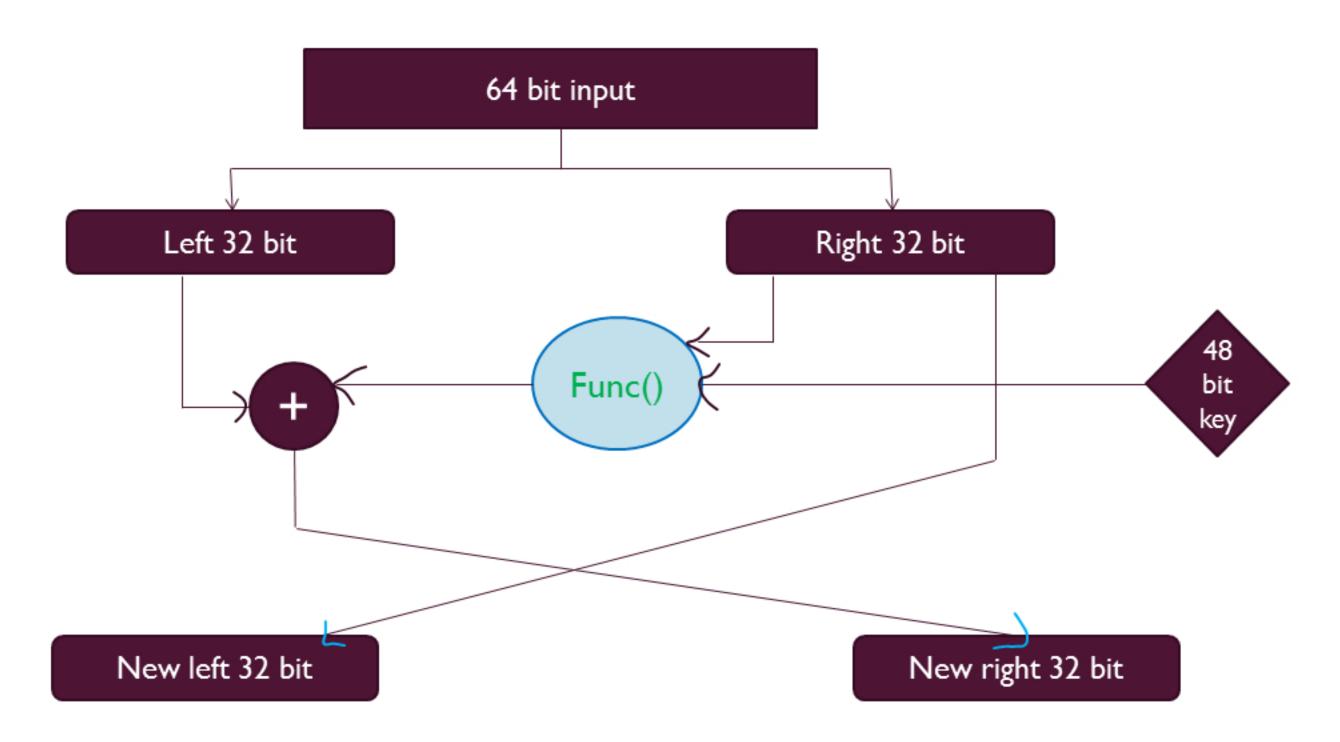
Viiesh Nair

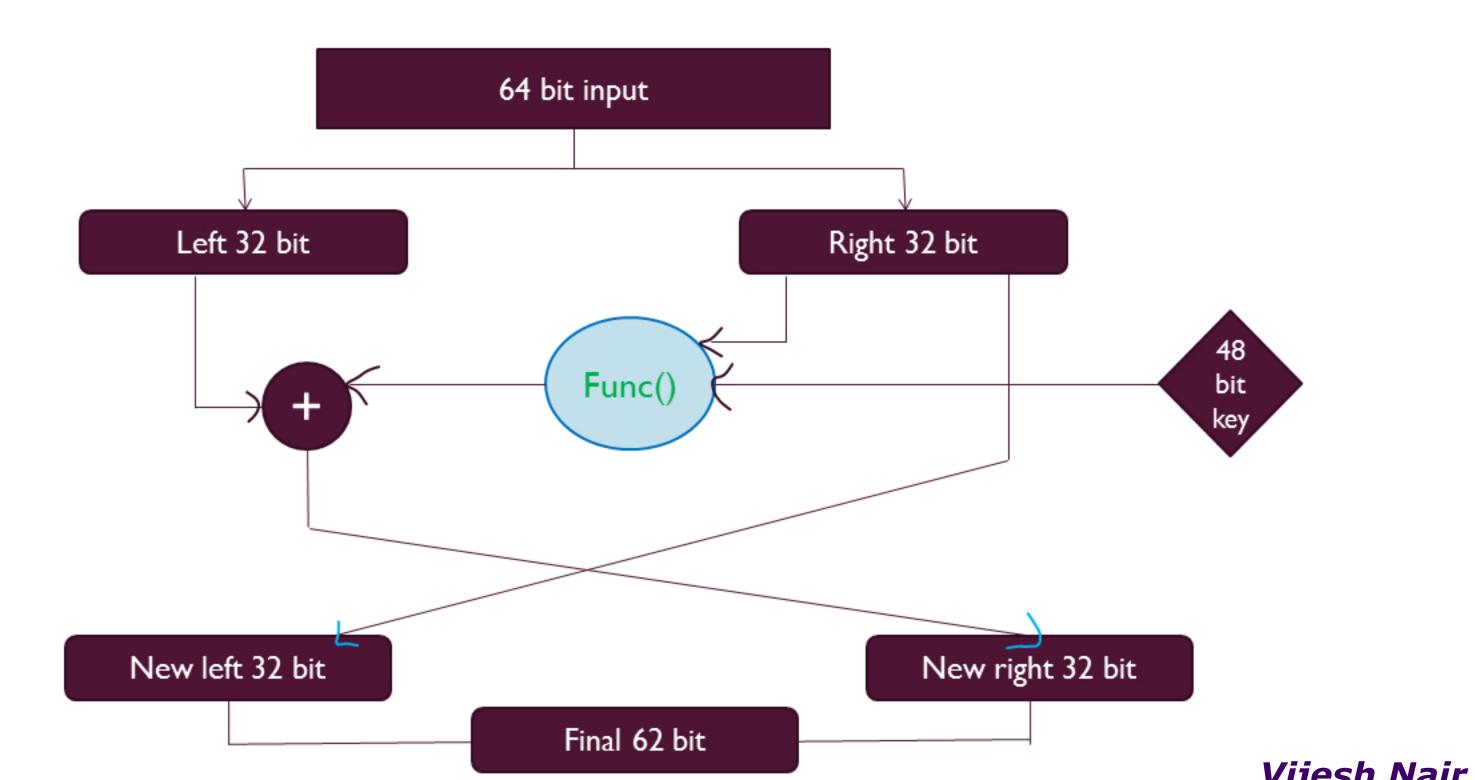
S BOX (Substitution Box)

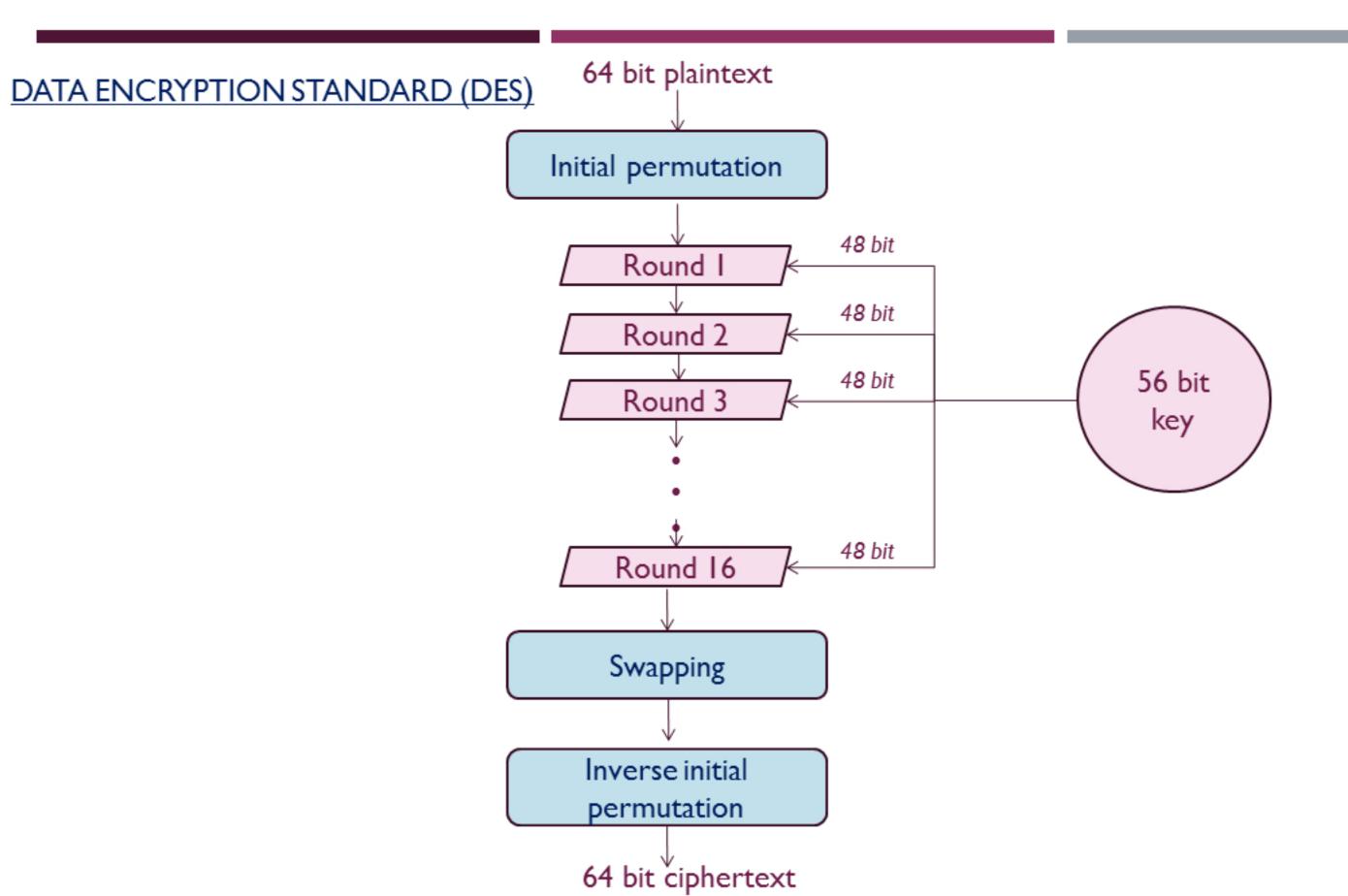
	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	Ш
00	0010	1100	0100	0001	0111	1010	1011	0110	1000	0101	0011	1111	1101	0000	1110	1001
01	1110	1011	0010	1100	0100	0111	1101	0001	0101	0000	Ш	1010	0011	1001	1000	0110
10	0100	0010	0001	1011	1010	1101	0111	1000	1111	1001	1100	0101	0110	0011	0000	1110
11	1011	1000	1100	0111	0001	1110	0010	1101	0110	1111	0000	1001	1010	0100	0101	0011











THANK YOU

Vijesh Nair