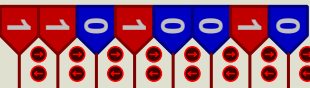


# Encryption Of Plain Text (Combinational)

## Input

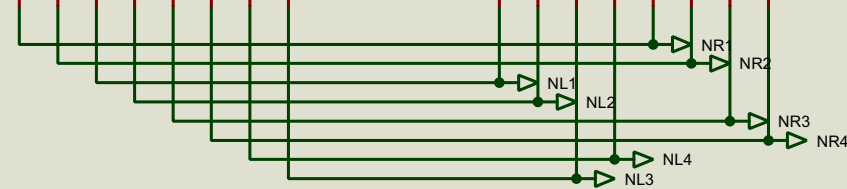
Plain Text (8 bits)

1 2 3 4 5 6 7 8



Permuted Text (8 bits)

3 4 8 7 1 2 5 6



Merged Text (8 bits)

1 2 3 4 5 6 7 8



## Output

Encrypted Text (8 bits)

5 6 1 2 7 8 4 3



## ROUND KEYS GENERATION

### Input

Initial Key (8 bits)

1 2 3 4 5 6 7 8



Round Key 1



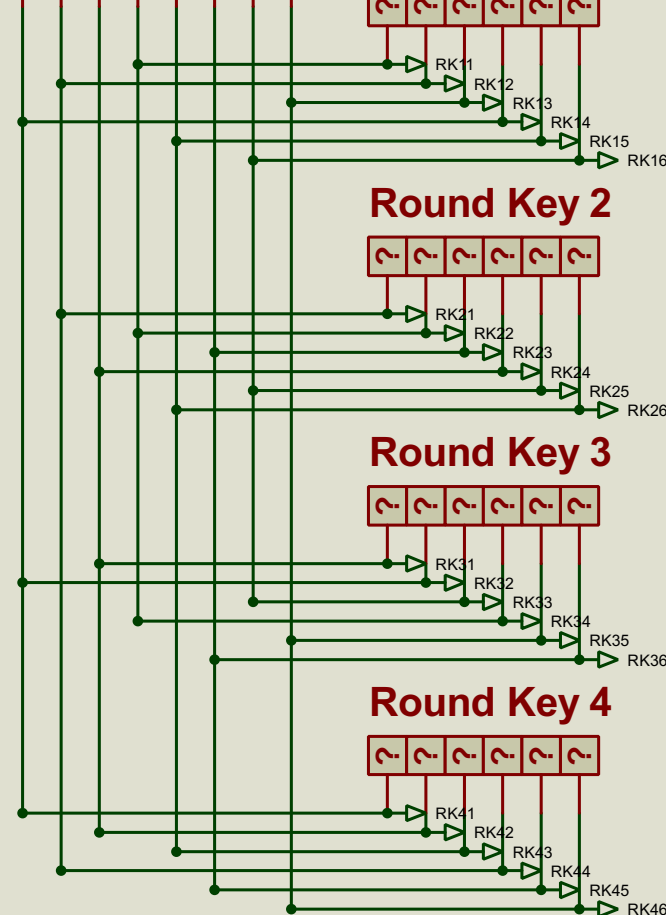
Round Key 2



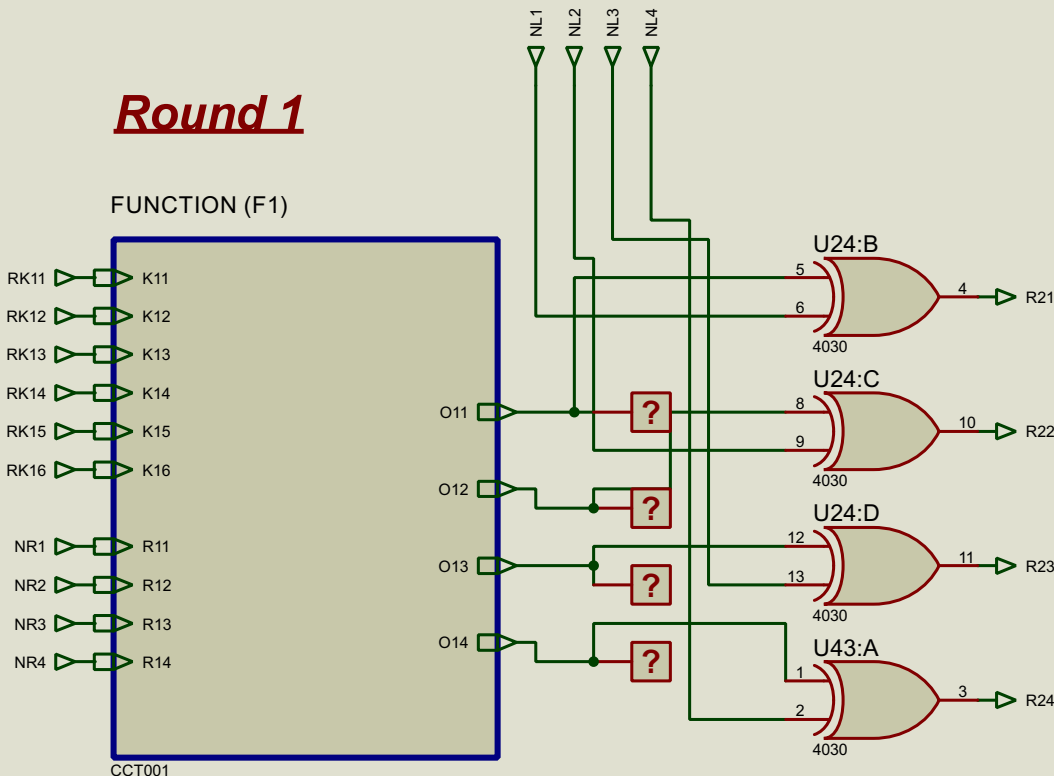
Round Key 3



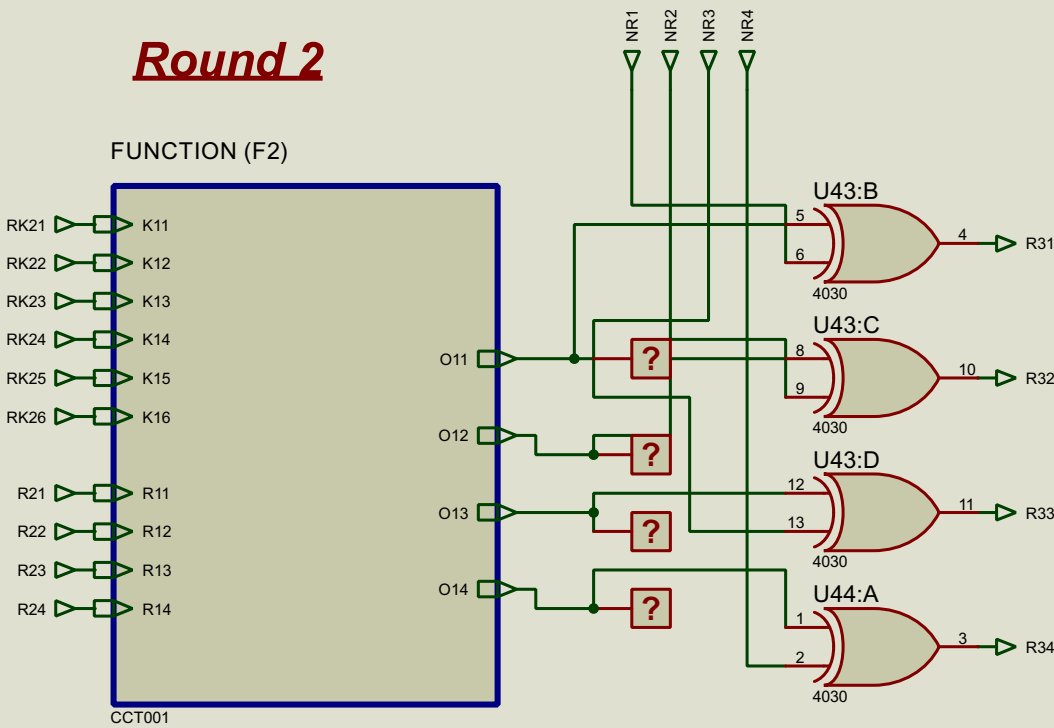
Round Key 4



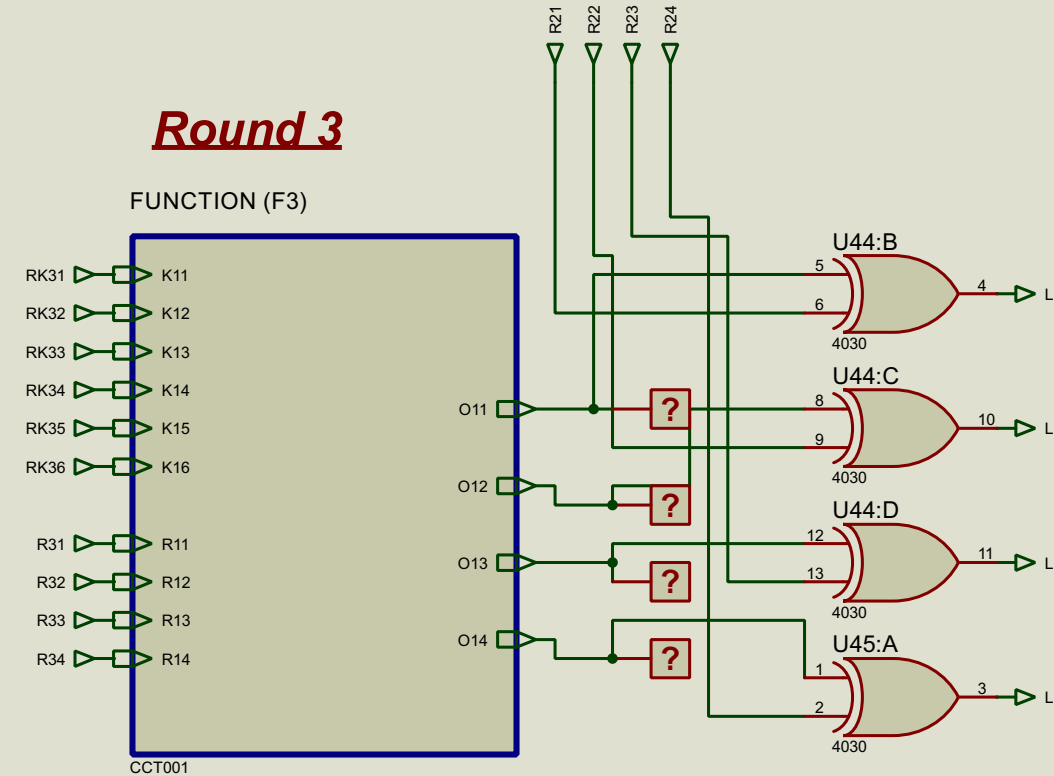
### Round 1



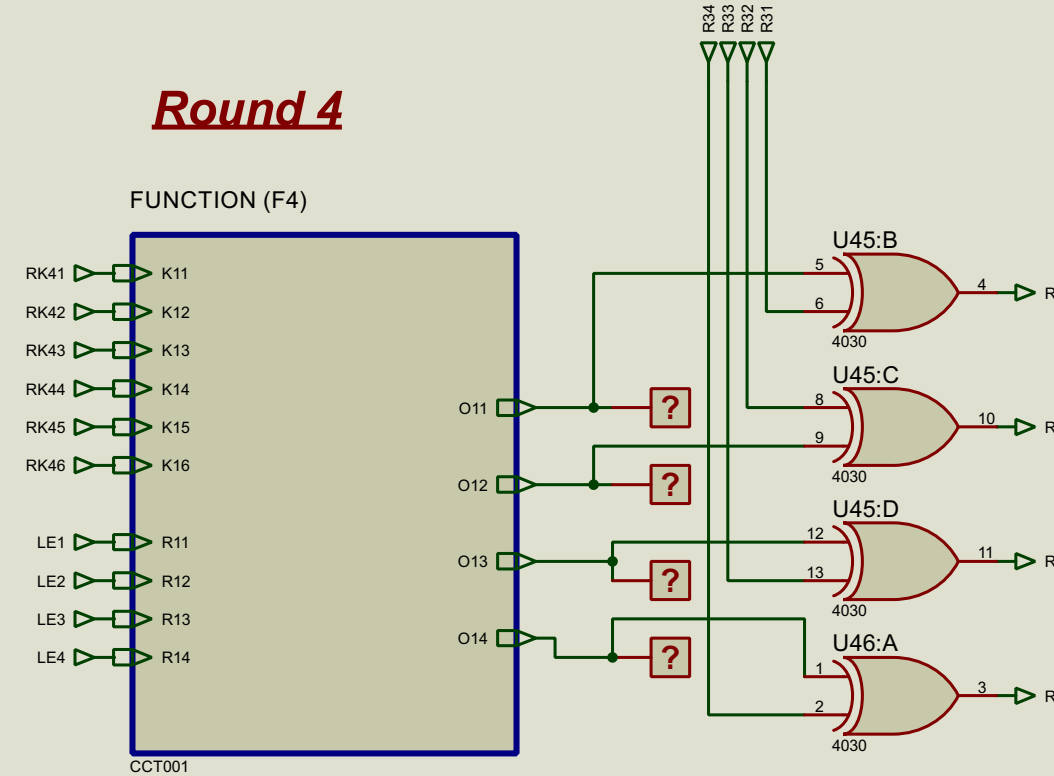
### Round 2



### Round 3



### Round 4

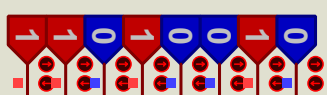


# Encryption Of Plain Text (Sequential)

## Input

Plain Text (8 bits)

1 2 3 4 5 6 7 8



Permuted Text (8 bits)

3 4 8 7 1 2 5 6



Merged Text (8 bits)

1 2 3 4 5 6 7 8



## Output

Encrypted Text (8 bits)

5 6 1 2 7 8 4 3

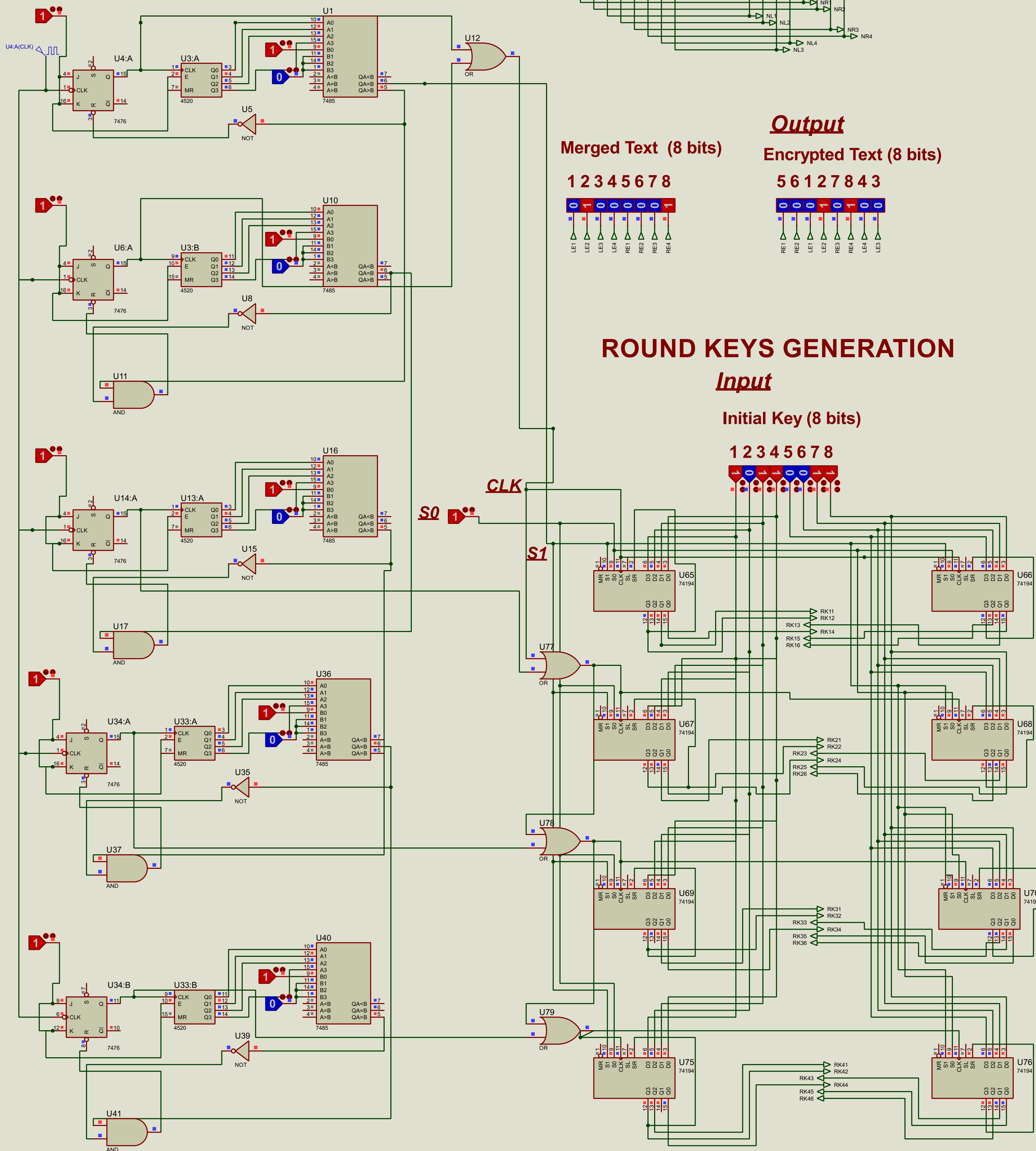
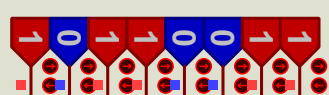


## ROUND KEYS GENERATION

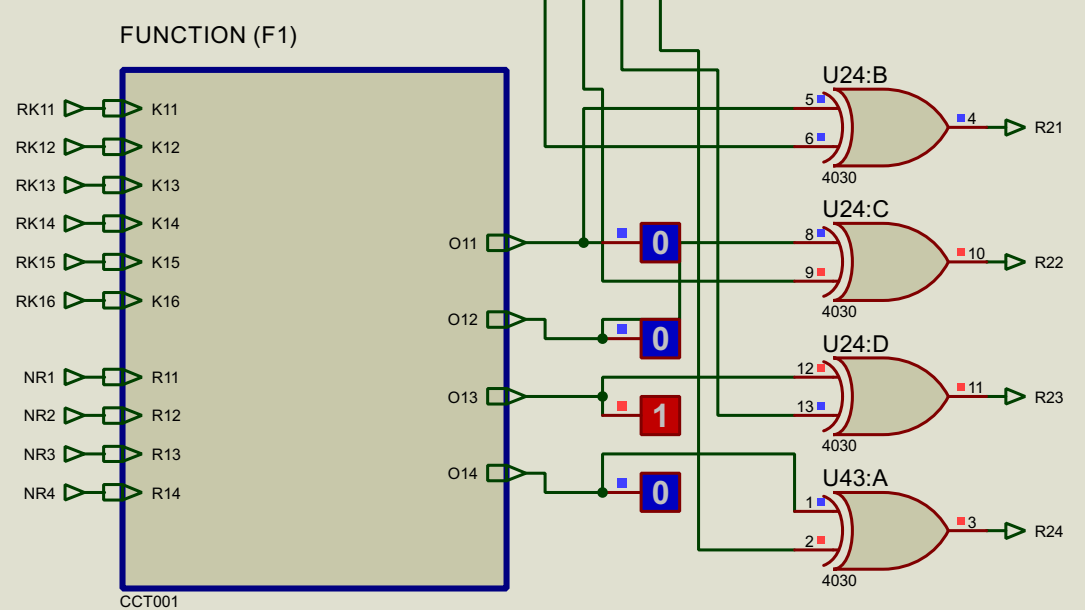
### Input

Initial Key (8 bits)

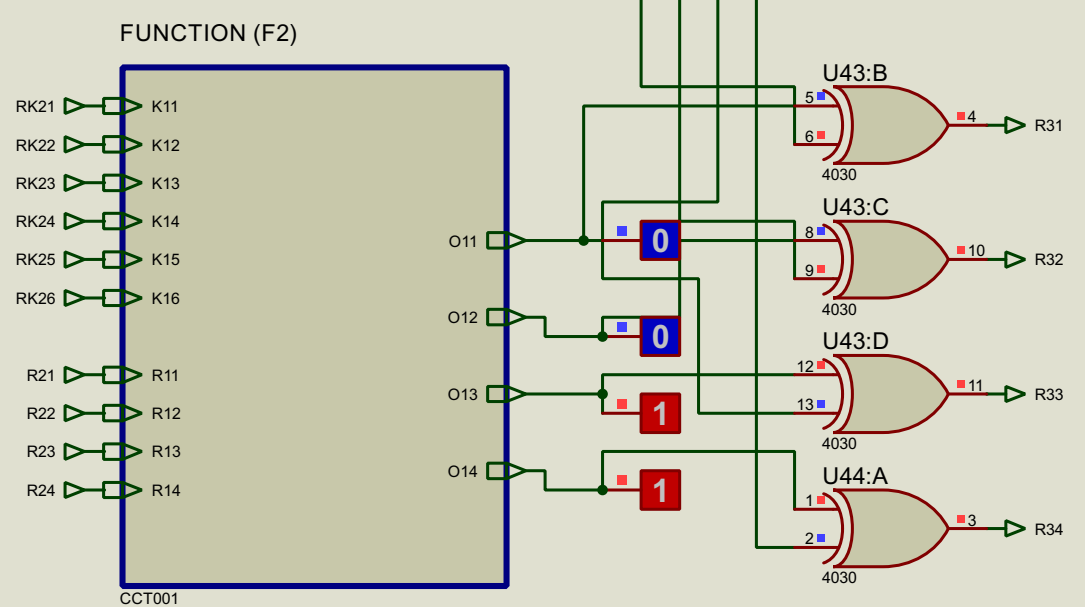
1 2 3 4 5 6 7 8



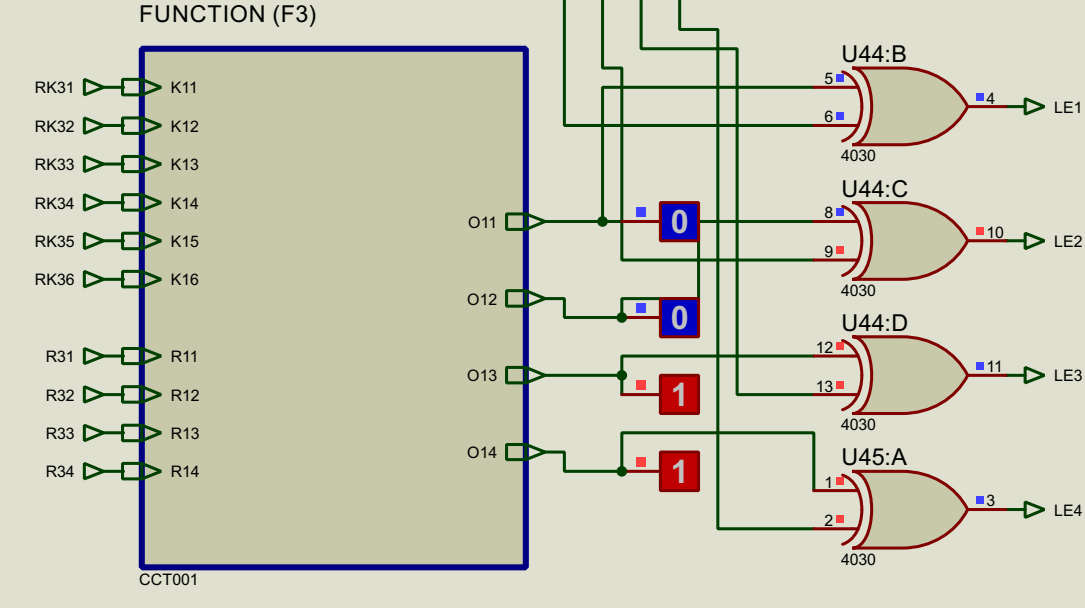
### Round 1



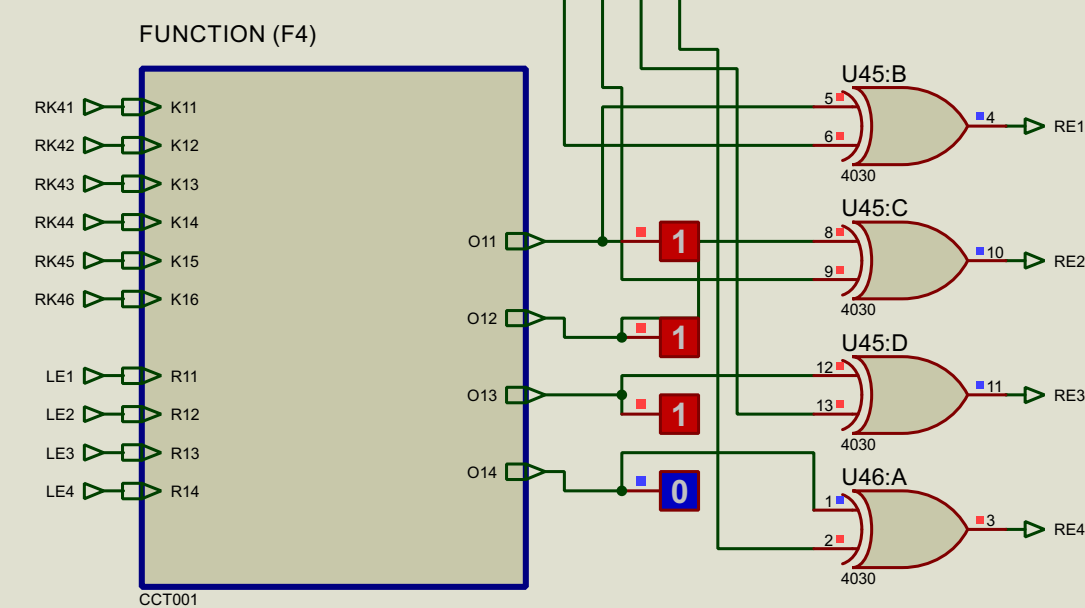
### Round 2



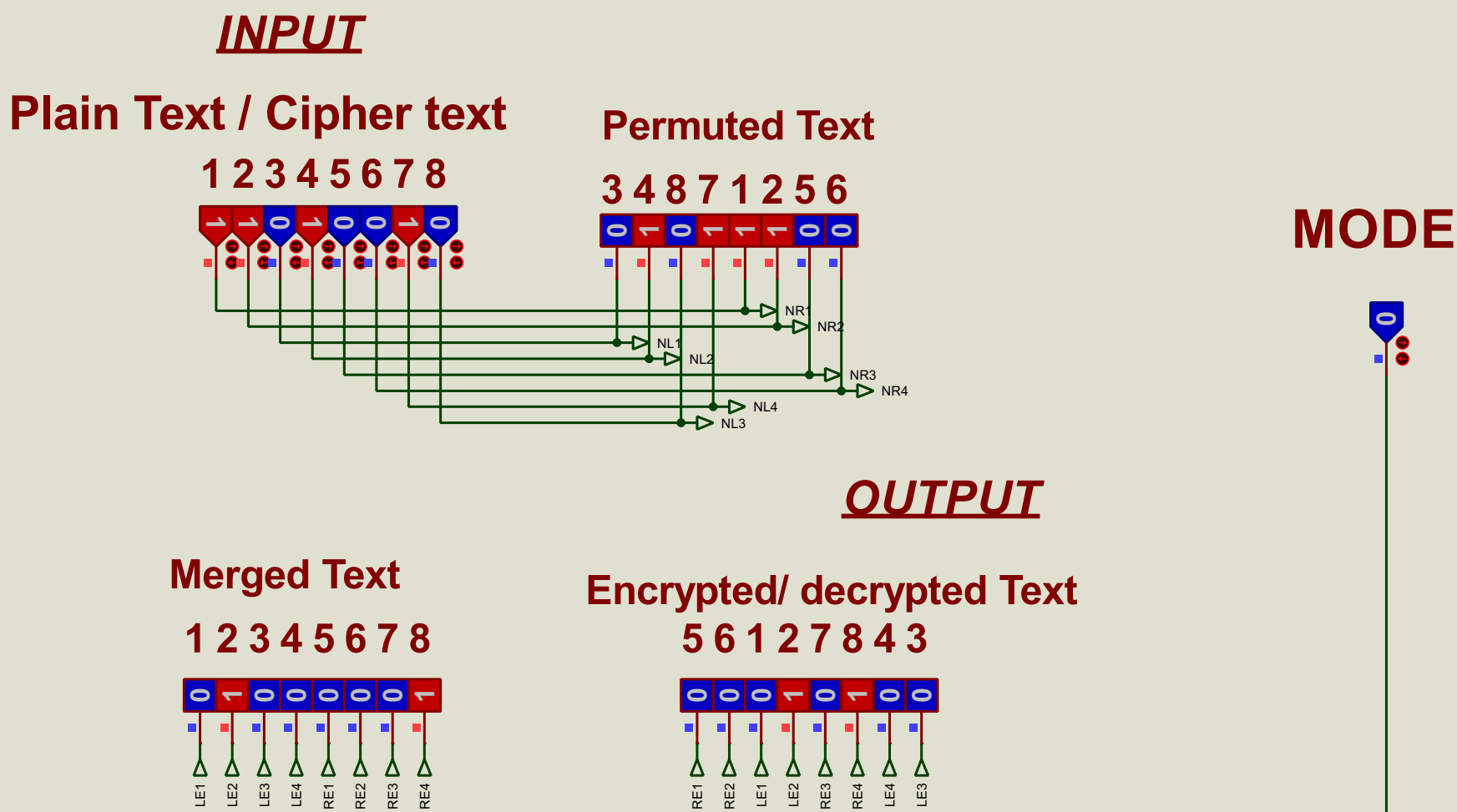
### Round 3



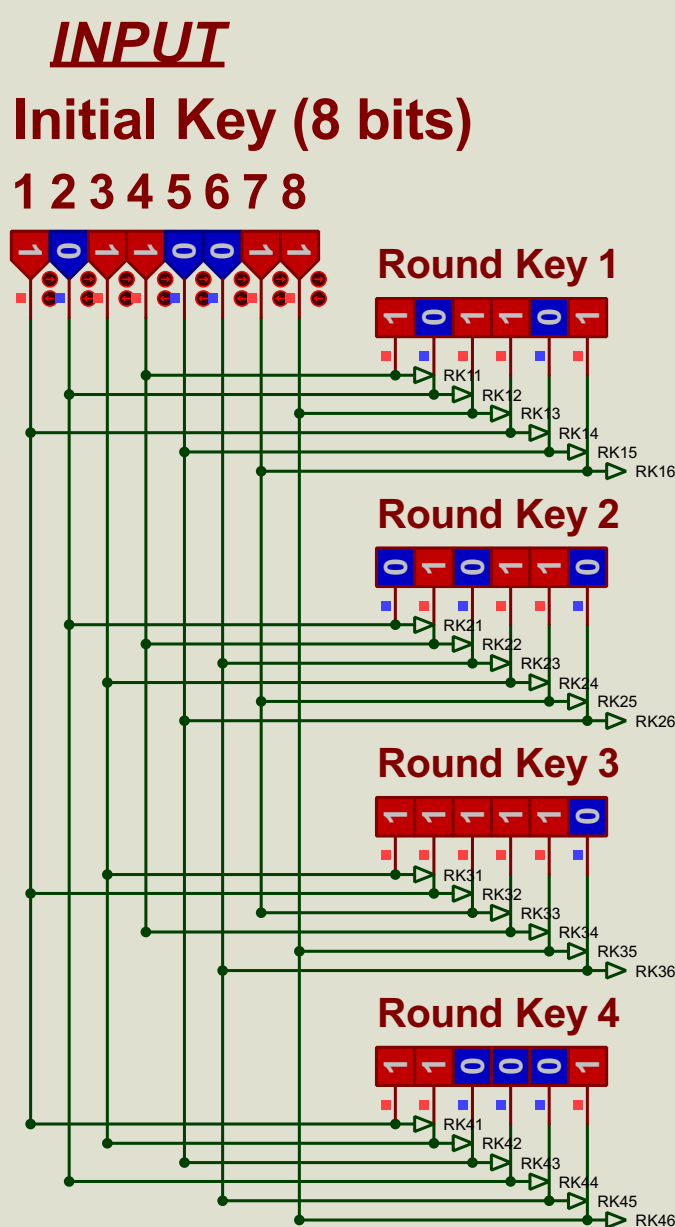
### Round 4



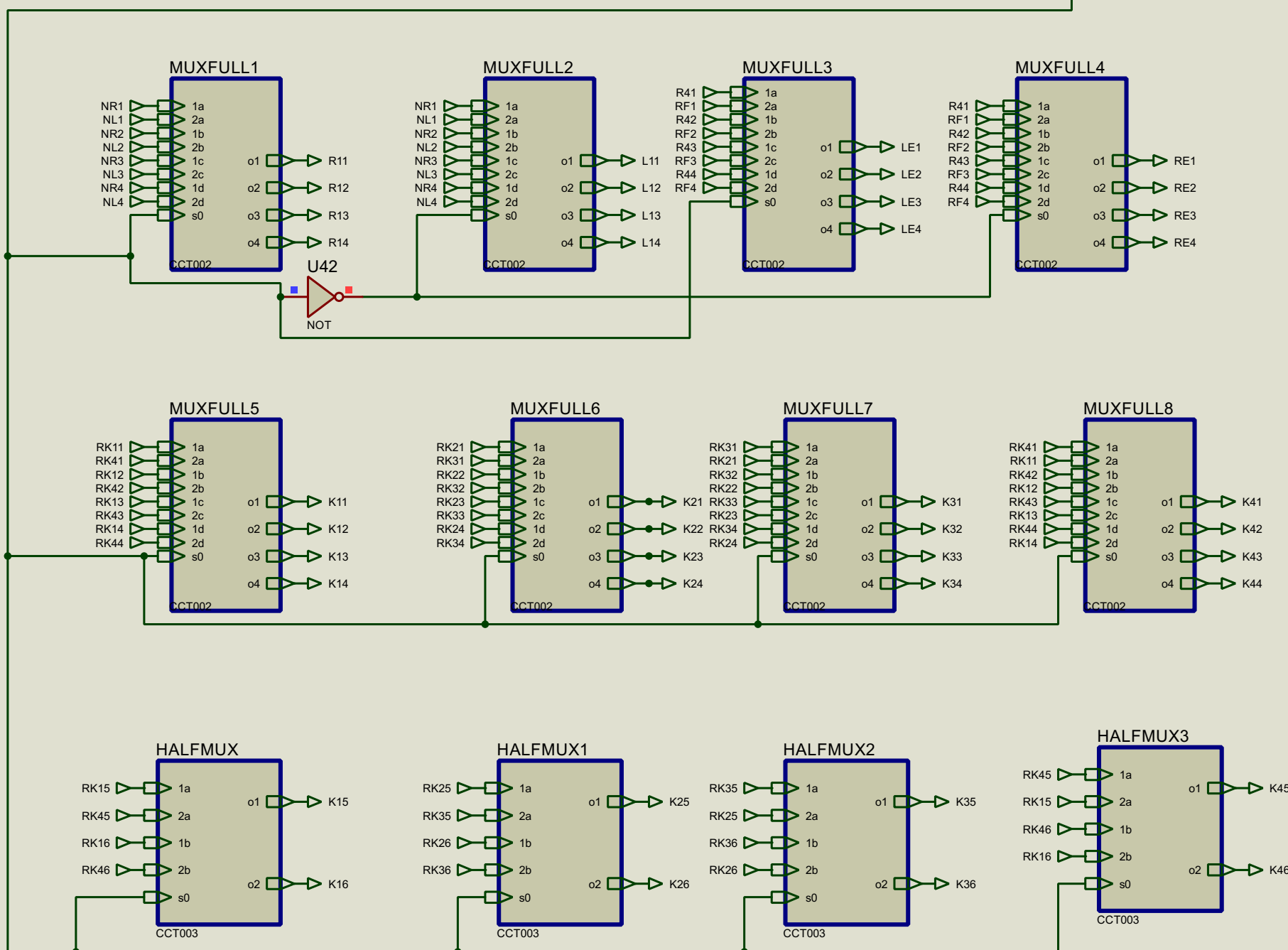
# Encryption Or Decryption Of Text (Combinational)



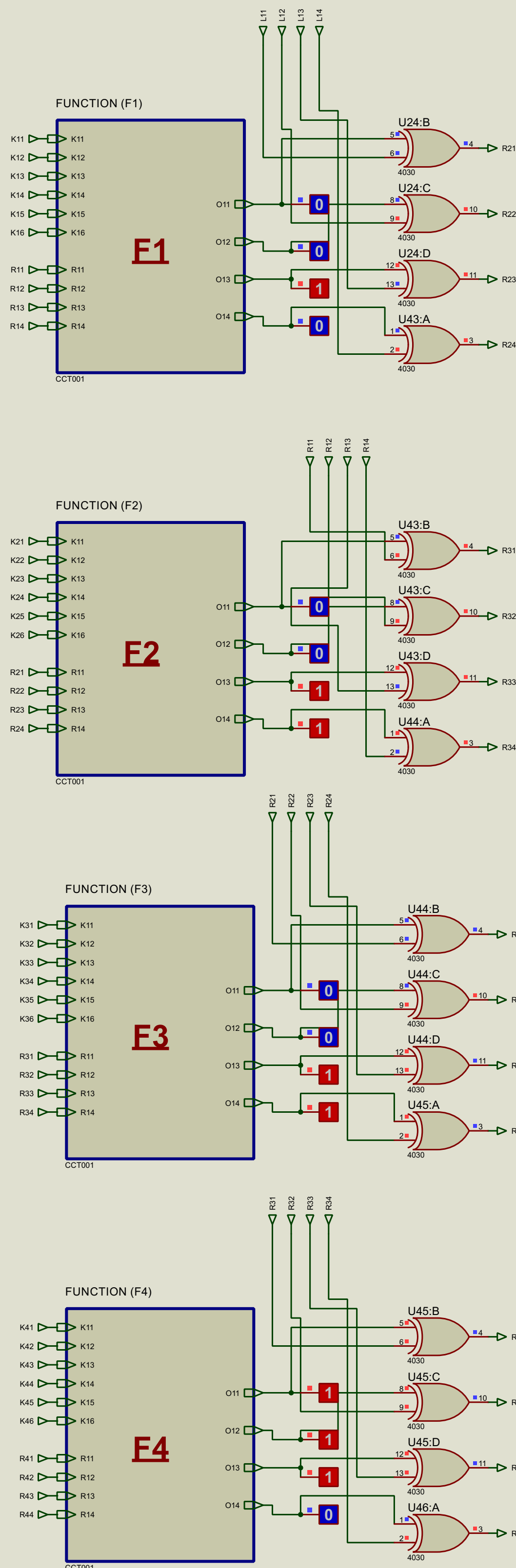
## ROUND KEYS GENERATION



## ROUND KEYS SELECTION

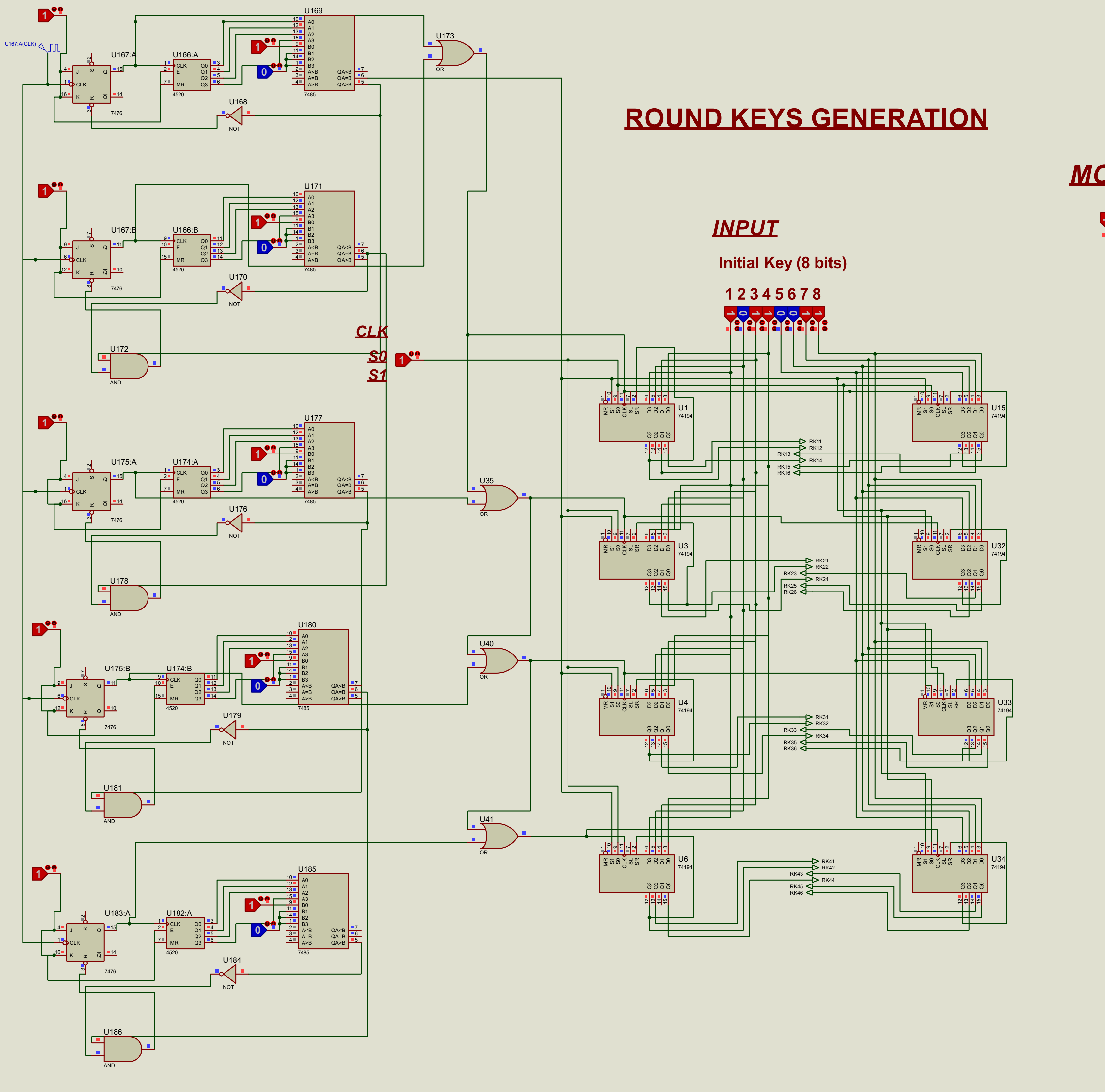


## PERFORMING FUNCTIONS





# Encryption Or Decryption of Text (Sequential)



## ROUND KEYS GENERATION

### INPUT

Initial Key (8 bits)



CLK  
S0  
S1

### MODE

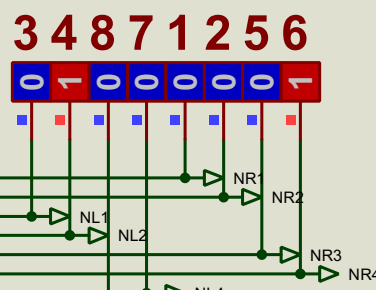
### INPUT

Plain Text (Mode = 0)

Cypher Text (Mode = 1)

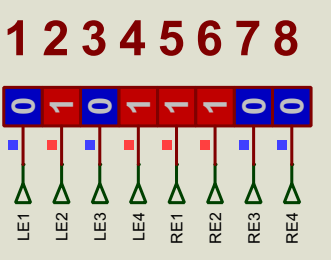


Permuted Text (8 bits)

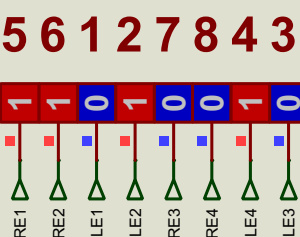


### OUTPUT

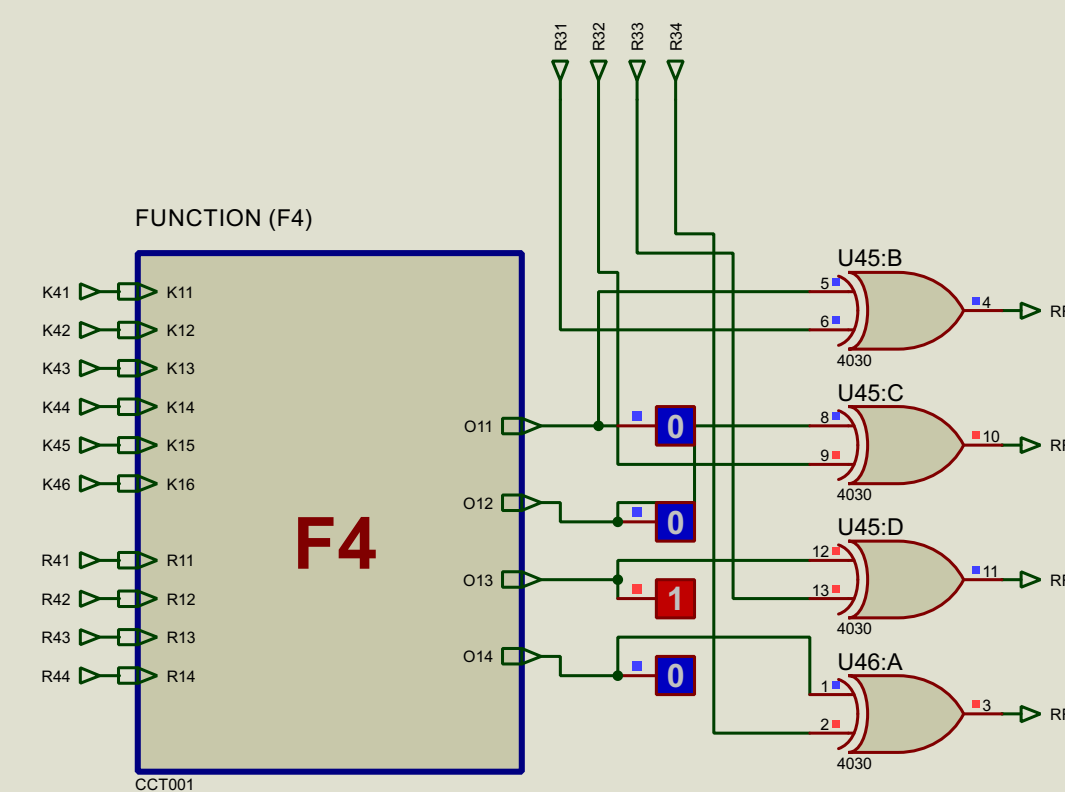
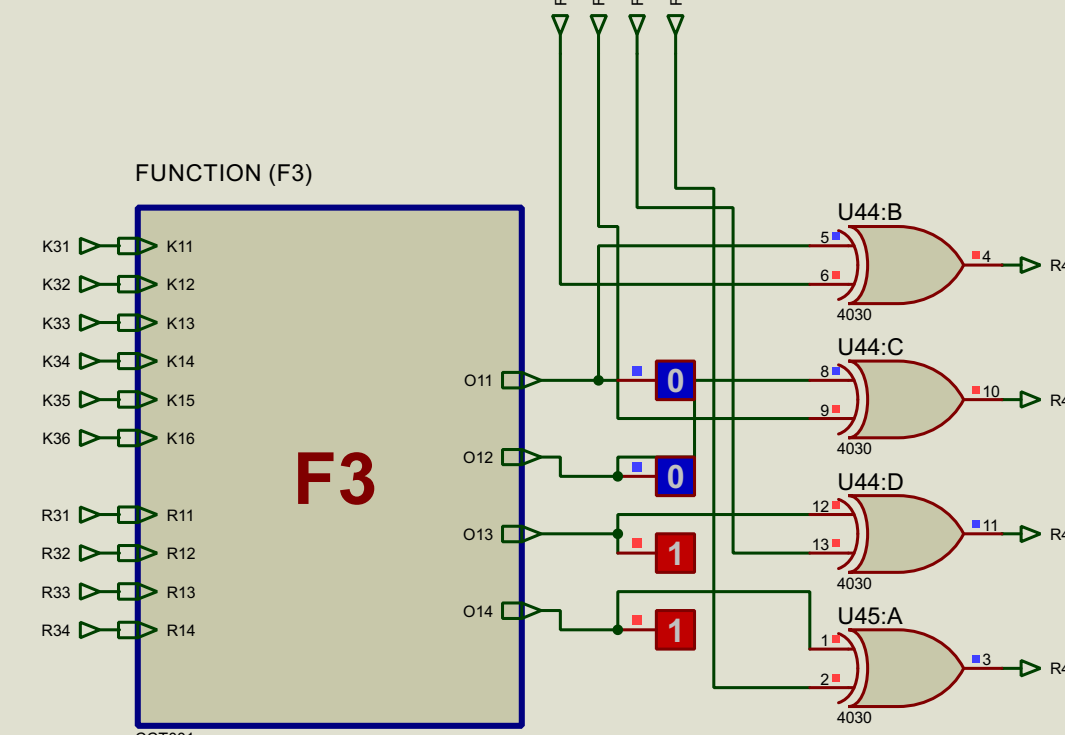
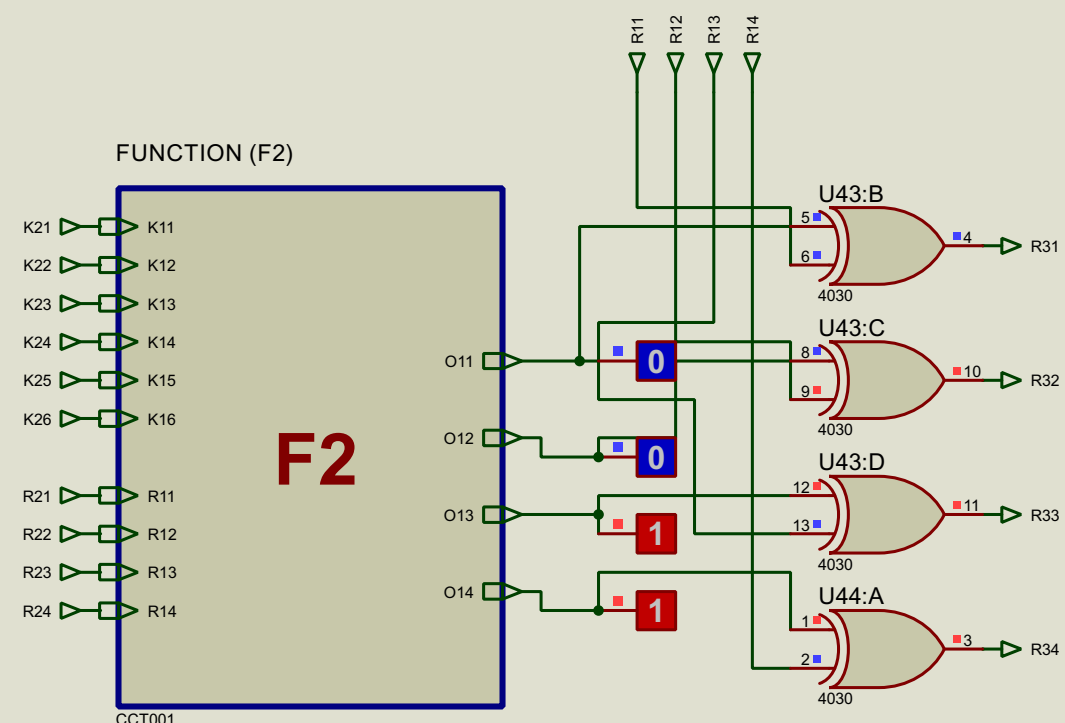
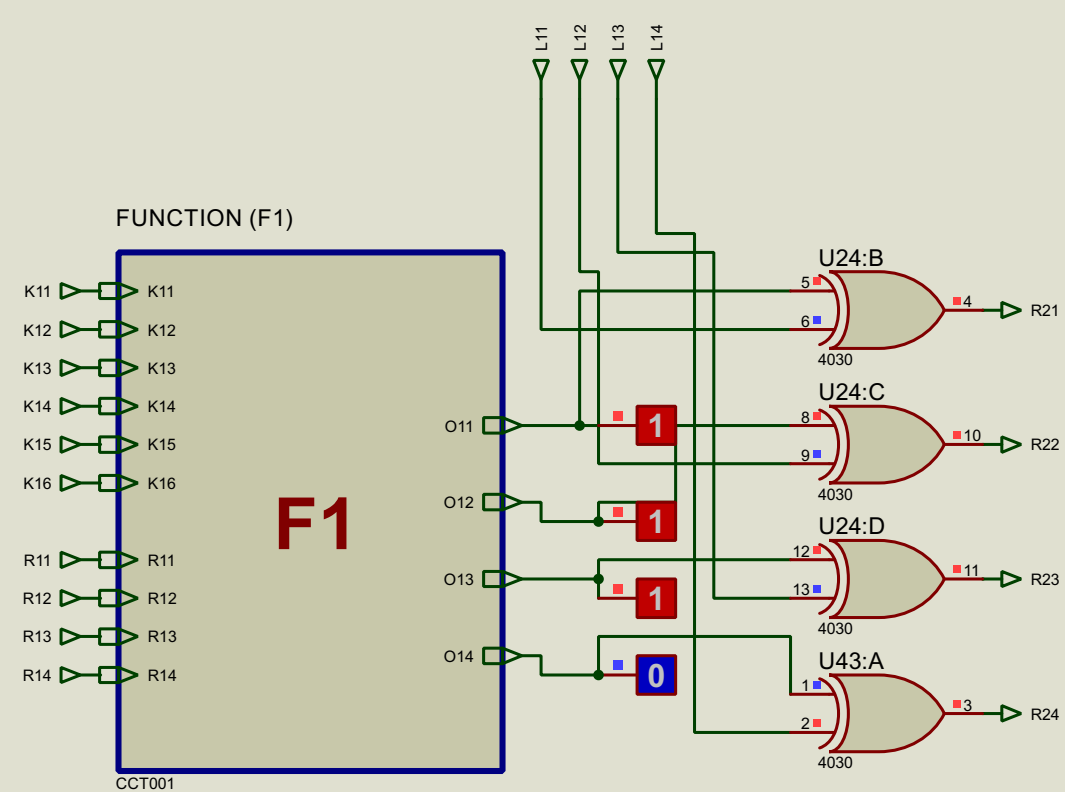
Merged Text (8 bits)



Encrypted/ decrypted Text (8 bits)



## PERFORMING FUNCTIONS



## ROUND KEYS SELECTION

