

## Excitation Table:

In [electronics design](#), an **excitation table** shows the minimum inputs that are necessary to generate a particular next state (in other words, to "excite" it to the next state) when the current state is known.

$Q$	$Q^+$	$J$	$K$
0	0	0	X
0	1	1	X
1	0	X	1
1	1	X	0

JK Flip-flop

$Q$	$Q^+$	$S$	$R$
0	0	0	X
0	1	1	0
1	0	0	1
1	1	X	0

SR Flip-flop

$Q$	$Q^+$	$D$
0	0	0
0	1	1
1	0	0
1	1	1

 D Flip-flop

$Q$	$Q^+$	$T$
0	0	0
0	1	1
1	0	1
1	1	0

T Flip-flop