

## Program Counter

The program counter has the following true table. The one on the right is the characteristic table for JK flip-flops in general.

	CL	LD	$D_i$	$J_i$	$K_i$
Counting	0	0	0	$T_i$	$T_i$
	0	0	1	$T_i$	$T_i$
Loading info	0	1	0	0	1
	0	1	1	1	0
Clear (reset to zero)	1	0	0	0	1
	1	0	1	0	1
	1	1	0	0	1
	1	1	1	0	1

J	K	$Q_{n+1}$
0	0	$Q_n$
0	1	0
1	0	1
1	1	$\overline{Q_n}$



