

	100	101	102	103			
%7	2	3	4	5	6	0	1

$(x \% 7) \% 10 = x \% 7$

%10	0	1	2	3	4	5	6	7	8	9
%10%7	0	1	2	3	4	5	6	0	1	2

$(x \% a) \% b \neq (x \% b) \% a$

cycle length $\leq a \cdot b$

1 2 2 3

$c_1=4 \quad c_2=1 \quad c_3=1$

3
2
2 1

1 5 7 8 8 10

c_1	6	10	8	1	
c_2	6	8	7	5	1
c_3	4				
c_4	4				
c_5	3				
c_6	2				
c_7	2				
c_8	2				
c_9	1				
c_{10}	1				