

### 3 Secondary Hashing

Consider the following table which inserts values using secondary hashing with a primary hash function  $h(k) = k \% 10$  and a secondary hash function  $g(k) = 7 - (k \% 7)$ . Insert the following values: 21, 36, 36, 11, 6 into the hashtable

0	
1	21
2	36
3	
4	11
5	
6	36
7	6
8	
9	

1. Give a single integer that, when we attempt to insert it into the table results in an infinite loop.
2. Is there any way we can avoid double-hashing resulting in an infinite loop? Explain your answer.