Names:

CSCI 241 Worksheet: Hashing I

1. Write pseudocode to implement the following Set ADT operations for the restricted Set that can only contain the digits 0..10. Assume that the underlying storage is an int[] of size 10 called A.

```
void insert(int i):
```

```
int contains(int i):
```

```
void remove(int i):
```

2. Evaluate the following modulus expressions:

    12 % 3

    14 % 3

    8 % 5

    3 % 10

    10 % 4

3. Insert the following values into the hash table in the order given below. Use h(k) = k % 8 as the hash function, and use chaining for collision resolution.

   1, 11, 16, 4, 5, 8, 0, 13

0	
1	
2	
3	
4	
5	
6	
7	