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.

```c
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 \( h(k) = k \mod 8 \) as the hash function, and use chaining for collision resolution.

\[
1, 11, 16, 4, 5, 8, 0, 13
\]