11.4-2.

Write pseudocode for HASH-DELETE as outlined in the text, and modify HASH-INSERT to handle the special value DELETE.

Answer.

```
HASH-DELETE(T, k)
1  i = 0
2  repeat
3      j = h(k, i)
4      if T[j] == k
5          T[j] = NIL
6          return j
7      else i = i + 1
8  until T[j] == NIL or i == m
9  error "element not exist"
```

By implementing HASH-DELETE in this way, the HASH-INSERT need to be modified to treat NIL slots as empty ones.

```
HASH-INSERT(T, k)
1  i = 0
2  repeat
3      j = h(k, i)
4      if T[j] == NIL or T[j] == DELETE
5          T[j] = k
6          return j
7      else i = i + 1
8  until i == m
9  error "hash table overflow"
```


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