

TABLE-INSERT( $T, x$ )

```
1  if  $T.size == 0$ 
2      allocate  $T.table$  with 1 slot
3       $T.size = 1$ 
4  if  $T.num == T.size$ 
5      allocate  $new-table$  with  $2 \cdot T.size$  slots
6      insert all items in  $T.table$  into  $new-table$ 
7      free  $T.table$ 
8       $T.table = new-table$ 
9       $T.size = 2 \cdot T.size$ 
10 insert  $x$  into  $T.table$ 
11  $T.num = T.num + 1$ 
```