Pseudocode for Hashing with Open Addressing

Note: In open addressing, the hash function $h(k,i)$ has two parameters. The parameter $k$ is the key to be hashed and the parameter $i$ represents the probe number.

```plaintext
Hash_Insert (T, k)
    // Insert key k into T. If successful, returns the index
    // where k was inserted.
    1. i = 0
    2. repeat
        2.1 j = h(k,i)
        2.2 if (T[j] = NULL)
            T[j] = k    // Key successfully inserted.
            return j
        2.3 else
            i = i + 1
    3. until (i = m)
    4. Print "Hash table overflow" and stop.

Hash_Search (T, k)
    // Return the index of the table entry containing the key k
    // if it is in T; return NULL otherwise.
    1. i = 0
    2. repeat
        2.1 j = h(k,i)
        2.2 if (T[j] = k)
            return j  // Successful search.
        2.3 else
            i = i + 1
    3. until ( (T[j] = NULL) or (i = m) ).
    4. return NULL.
```