```
FURTHEST-IN-FUTURE(R, C)
 1  for i = 1 to R.length
 2      if R[i] ∈ C
 3          Cache Hit
 4      else
 5          Cache Miss
 6          if Cache is not full
 7              add R[i] to Cache
 8          else
 9              // tmp is used to keep track of the latest appearance
10              // of cache item in the sequence
11              tmp = i
12              // pos is used to keep track of the position in cache to be replaced
13              pos = 1
14              for j = 1 to C.length
15                  p = i
16                  // find the first appearance of the specified cache item in the sequence
17                  while R[p] ≠ C[j]
18                      p = p + 1
19                  // if p reaches the end of sequence without
20                  // finding the specified cache item
21                  if p > R.length
22                      // p = Infinity
23                      pos = j
24                      break from the inner for loop
25                  // update tmp
26                  if p > tmp
27                      tmp = p
28                      pos = j
29              C[pos] = R[i]
```