Algorithm 2 T-CBF ELEMENT INSERTION

for $i = 1$ *to* k **do**
  Access position $f_i(x)$ and read c_1, c_2
  if $c_1 < L$ **then**
    $c_1 = v_{g_i(x)}$
    if $c_2 == 0$ **then**
      $c_2 = w_{h_i(x)}$
  else if $c_1 < 2L$ **then**
    $c_1 = c_1 + v_{g_i(x)}$
    if $c_2 < L$ **then**
      if $v_{g_i(x)} - L + 1 < L$ **then**
        $c_2 = v_{g_i(x)} - L + 1$
      else if $c_1 - L + 1 < L$ **then**
        $c_2 = c_1 - L + 1$
      else
        $c_2 = 1$
  else
    $c_1 = c_1 + v_{g_i(x)}$
    if $c_2 \in [1, L-1]$ **then**
      $c_2 = 0$