Algorithm 2 T-CBF ELEMENT INSERTION

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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**

        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

                $c_2 = 1$

        $c_1 = c_1 + v_{g_i(x)}$

    else

        $c_1 = c_1 + v_{g_i(x)}$

        if $c_2 \in [1, L-1]$ **then**

            $c_2 = 0$