$$\alpha\text{-}VAttr : VPG \to \mathcal{P}(\mathfrak{C} \times V) \to \mathcal{P}(\mathfrak{C} \times V)$$

$$\alpha\text{-}VAttr(G, U) = \mu A. A \cup U$$
$$\cup \{(c, v) \in \mathfrak{C} \times V_\alpha \mid \exists v' \in V : (c, v') \in A \land (v, v') \in E \land c \in \theta(v, v')\}$$
$$\cup \{(c, v) \in \mathfrak{C} \times V_{\overline{\alpha}} \mid \forall v' \in V : (v, v') \in E \land c \in \theta(v, v') \implies (c, v') \in A\}$$

$$\backslash : VPG \to \mathcal{P}(\mathfrak{C} \times V) \to VPG$$
$(V, V_0, V_1, E, \Omega, \mathfrak{C}, \theta) \backslash CV = (V', V_0', V_1', E', \Omega, \mathfrak{C}, \theta')$ such that:
$\theta'(u, v) = \theta(u, v) \backslash \bigcup \{c \mid (c, w) \in CV \land (u = w \lor v = w)\}$
$E' = \{e \in E \mid \theta'(e) \neq \emptyset\}$
$V' = \{u \in V \mid \exists (v, w) \in E' : v = u \land w = u\}$
$V_0' = V_0 \cap V'$
$V_1' = V_1 \cap V'$

Changes to the original arg: reason not about vertices but about configuration, vertex pairs. Introduce a new parameter X: exclusion set. This contains conf, vertex pairs that ought not to be considered. The reasons is that a vertex might still be in the subgame but some of the configurations are not to be considered for that vertex.

Params: $VPG\ G = (V, V_0, V_1, E, \Omega, \mathfrak{C}, \theta),\ X \subseteq \mathfrak{C} \times V$
1: $m \leftarrow \min\{\Omega(v) \mid v \in V\}$
2: $h \leftarrow \max\{\Omega(v) \mid v \in V\}$
3: **if** $h = m$ or $V = \emptyset$ **then**
4:     **if** h is even or $V = \emptyset$ **then**
5:         **return** $(V, \emptyset)$
6:     **else**
7:         **return** $(\emptyset, V)$
8:     **end if**
9: **end if**
10: $\alpha \leftarrow 0$ if h is even and 1 otherwise
11: $U \leftarrow (\mathfrak{C} \times \{v \in V \mid \Omega(v) = h\}) \backslash X$
12: $A \leftarrow \alpha\text{-}VAttr(G, U)$
13: $(W_0', W_1') \leftarrow Recursive(G \backslash A, \underbrace{A \cup X}_{?})$

14: **if** $W_{\overline{\alpha}}' = \emptyset$ **then**
15:     $W_\alpha \leftarrow A \cup W_\alpha'$
16:     $W_{\overline{\alpha}} \leftarrow \emptyset$
17: **else**
18:     $B \leftarrow \overline{\alpha}\text{-}VAttr(G, W_{\overline{\alpha}}')$
19:     $(W_0, W_1) \leftarrow Recursive(G \backslash B, B \cup X)$
20:     $W_{\overline{\alpha}} \leftarrow W_{\overline{\alpha}} \cup B$
21: **end if**
22: **return** (W_0, W_1)