**Algorithm 1:** Handling Inconsistent Blockchain Views $(G_0, B_0)$

**Input:** Blockchain graph $G_0$, genesis block $B_0$
**Output:** Main View $v_0$

$S_0 \leftarrow \varnothing$
**foreach** $B \in G$ **do**
  $s \leftarrow$ BlocktoSubgroup$(B)$
  **if** $s \in S_0$ **then**
    **continue**
  **else**
    $S_0 \leftarrow S_0 \cup \{s\}$
  **end**
**end**
// $S_0$ stands for a set containing all subgroups
**foreach** $B \in G$ **do**
  **foreach** $s \in S_0$ **do**
    $W(s) \leftarrow 0$
    **foreach** $v \in$ SubviewsBeginwith$(s)$ **do**
      **if** $B \in v$ **then**
        $W(s) \leftarrow W(s) +$ Miningpower$(B)$
        **break**
      **end**
    **end**
  **end**
**end**
// Calculate weights of all subgroups
$s \leftarrow$ BlocktoSubgroup$(B_0)$
**if** ChildSubroups$(s) = \varnothing$ **then**
  **return** $s$
**else**
  Update $s \leftarrow \underset{s' \in \text{ChildSubroups}(s)}{\arg\max} W(s')$
  Go to line 22
**end**

```
   // Function to find all subviews that begin with s
 1 Function SubviewsBeginwith(s):
 2 |  V ← ∅
 3 |  if ChildSubroups(s) = ∅ then
 4 |  |  return {s}
 5 |  else
 6 |  |  foreach c ∈ ChildSubroups(s) do
 7 |  |  |  foreach v ∈ SubviewsBeginwith(c) do
 8 |  |  |  |  V ← V ∪ {{s} ∪ v}
   |  |  |  |  // V.Add(v.Add(s))
 9 |  |  |  end
10 |  |  end
11 |  end
12 return V
   // Function to find child subgroups
13 Function ChildSubroups(s):
14 |  C ← ∅
15 |  foreach s′ ∈ S_0 do
16 |  |  foreach B′ ∈ s′ do
17 |  |  |  foreach B ∈ s do
18 |  |  |  |  if B′.predecessor has B then
19 |  |  |  |  |  C ← C ∪ {B′}
20 |  |  |  |  end
21 |  |  |  end
22 |  |  end
23 |  end
24 return C
```