# **Grammar (Regular Expression)**

* **P(MP + SP + ID)^n, 0 < n <= 3**

### **Alphabet**

* **P: Pokemon name (user input)**
* **M: Move name (user input)**
* **I: Item**
* **S: Switch**
* **D: Determiner for Item/ Item name (user input)**

### **Production Rules**

* Substring must contain exactly one Pokemon, one Action, and one Determiner or one Pokemon in that order.
  + If the Action is Move or Switch, then it is followed by a Pokemon.
  + If the Action is Item, then it is followed by a Determiner for Item.
* String must contain 1-3 substrings