

Input: *WyIL* file, compiled by Whiley compiler

Output: *MUT* maps each function to a mutable set

// Collect mutable sets in all functions

```
1: procedure MUTABLE_ANALYSIS(WyIL)
2:    $MUT = \emptyset$ 
3:   for each func function in WyIL do
4:      $MUT(func) = \emptyset$ 
5:     for each code in func do
6:        $lhs \leftarrow$  Extract LHS variable at code
7:       if  $lhs \neq \text{NULL}$  then
8:          $MUT(f) = MUT(f) \cup lhs$ 
9:       end if
10:    end for
11:  end for
12: end procedure
```