

Extract Method Pseudocode

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Algorithm 1 Applying the Extract Method refactoring.

```
1: function applyExtractMethod(method, tool)
2:   stmts  $\leftarrow$  method.getStatements()
3:   if stmts.size() < 3 then
4:     return false                                 $\triangleright$  It is not possible to apply a refactoring.
5:   end if
6:   stmts = stmts - first(stmts) - last(stmts)   $\triangleright$  The first and last statements are removed.
7:   extract  $\leftarrow$   $\emptyset$ 
8:   for stmt  $\in$  stmts do                             $\triangleright$  iterate all statements in order of declaration
9:     extract = extract.concat(stmt)                 $\triangleright$  Add stmt in the end of extract
10:    if tool.applyExtractMethod(extract) then         $\triangleright$  Can the tool extract the statements?
11:      return true                                 $\triangleright$  It applies the refactoring, and concludes the process.
12:    end if
13:  end for
14:  return false                                 $\triangleright$  It is not possible to apply a refactoring.
15: end function
```
