

Program Analysis

Assignment-3

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MT12050

Output of HasNextTest.java

```
27 $r0 = interfaceinvoke it1.<java.util.Iterator: java.lang.Object next()>() Error
42 it2 := @parameter0: java.util.Iterator Warning
42 $r0 = interfaceinvoke it2.<java.util.Iterator: java.lang.Object next()>() Warning
47 $r3 = interfaceinvoke it2.<java.util.Iterator: java.lang.Object next()>() Warning
52 it3 := @parameter0: java.util.Iterator Warning
58 interfaceinvoke it3.<java.util.Iterator: java.lang.Object next()>() Warning
63 it4 := @parameter0: java.util.Iterator Warning
83 $r1 = interfaceinvoke $r0.<java.util.Iterator: java.lang.Object next()>() Error
```

Output of testcase1

```
14 interfaceinvoke it1.<java.util.Iterator: java.lang.Object next()>() Error
```

Output of testcase2

No error no warning

Output of testcase3

```
18 interfaceinvoke it2.<java.util.Iterator: java.lang.Object next()>() Error
```

I removed unwanted sentences of "found type" from output, which are occurring because of uncommented code in
soot.coffi.LocalVariableTypeTable_attribute.getLocalVariableType this file.

Assumptions: We are not doing interprocedural analysis so, not checking inside methods only giving warning if iterator is parameterized.