```
File f = new File();
String s = "";
/*@  ensures finite ** call(f.open) ** finite; */
\abstract_statement A;
s = f.read();
f.write(s);
/*@  ensures finite ** call(f.close) ** finite; */
\abstract_statement B;
```

(a) Before

```
File f = new File();
String s = "";
/*@  ensures finite ** call(f.open) ** finite; */
\abstract_statement A;
f.write(s);
s = f.read();
/*@  ensures finite ** call(f.close) ** finite; */
\abstract_statement B;
```

(b) After

$$\theta ::= \lceil \phi \rceil$$

$$| \ \mathsf{call}(\mathsf{m})$$

$$| \ \mathbf{finite}$$

$$| \ \theta **\theta$$