Simplification: H0

Table

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BUG 1:

**Tracing**

**H0: Overdue fine is infected after line 90 in ReturnItemControl.Dischargeloan**

**T0: check loan fines state after line 90 before line 91**

**R0: False**

**Test screenshots of the buggy code**

**Graphical user interface, application

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**H1: fineowed is infected after the discharge loan statement on line 91 ReturnItemControl.Dischargeloan**

**T1: check patrons current fines state after line 91**

**R1: True**

**Text

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**H2: Finesowed is infected after incurring fine from overdue if statement on line 218 in Library.dischargeLoan**

**T2: check patrons current finesowed state;**

**R2: True**

**Text

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**H3: Patron incur fine method is infected on line 102 in patron.incurFine**

**T3: Change the += into a = and check fines owed after statement again.**

**R3: True**

**Text

Description automatically generated**

**H4: Loan discharge loan is infected on line 227 library.dischargeloan**

**T4: check patrons fines owed after line 227**

**R4: True**

**Text

Description automatically generated**