Solutions

2.1

- Raises (already out) ✓.
- Object unchanged – still out to the same borrower ✓.

2.2

- The caller holds the very list the invariant depends on and can mutate it ✓.
- Return a copy ✓.

2.3

- Days stays within 0 to 30 between calls ✓.

3.1

- Constructor: refuse an opening balance outside 0 to 500 ✓.
- `deposit`: refuse a non-positive amount; refuse any amount that takes the balance past 500 ✓.
- After each refusal the balance reads exactly what it read before – the guard ran before any change ✓.
- No rollback: nothing was changed on the failing path ✓.
- The wall: repair cost scales with every reader of the field; validation cost was two `if` statements ✓.

3.2

- Truthy-but-not-True: `if flag:` reads one way, `if flag is True:` the other ✓.
- Two callers disagree about one object – a state no method could produce ✓.
- Repair cost scales with every reader of the flag; the validation cost was the guards at the gate ✓.
- Behaviour (e.g. an `available` query) states a promise; get/set for everything exposes storage and checks nothing ✓.