

Possible Problems in InsertImage.java program

- line 25 should write to param 3 not 2
- line 24: possible index out of bounds
- line 17: connection might fail.
- Poor exception reporting => should print message (and not stack trace?)
- Line 25: Arbitrary! non-image files are put into database
- Line 27: System.out not flushed
- Line 19: database may not have Image table
- Line 29-31: some close statements may be skipped. Use finally.

Possible Solutions to Cost-Benefit Analysis (for Testing)

- **Do nothing:** => 1200 bugs. Let the users find them!
- **All system testing:** 50 hours of manual testing finds 500 bugs. Leaves 700.
- **All unit testing:** => 5 modules * \$1000 => find 300 bugs. Leaves 900.
- Note to self: In future: do unit testing DURING development!
- **Mix:** \$3000 on unit testing (finds 180 bugs), \$2000 system testing (finds 200 bugs). This leaves 1200-380 = 820 bugs. Not optimal, but has the advantage that we find the most common system bugs, and also develop some unit tests that can be re-used in future releases...

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