Algorithmic Errors are Hard to Find

Algorithmic errors are also hard to find.

Why?

Had programmer

- thought of an input
- for which the algorithm fails,
- the programmer would have chosen a different algorithm!

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What Day is It? I need your help again... 220 midterms are on Thursdays. This year, Valentine's Day fell on Wednesday. What about next year?

Time for Some Computation

How many days in a year? 365

How many days in a week? 7

What's 365 % 7? 1

So ...

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A Different Day ... Every Seven Years?

14 Feb 2017 Tuesday Correct!

14 Feb 2018 Wednesday

14 Feb 2019 Thursday Right?

14 Feb 2020 Friday

14 Feb 2021 Saturday

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14 Feb 2026 Thursday Still right?

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