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!

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 …

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	
…		
14 Feb 2026	**Thursday**	**Still right?**