

# Day 04 - Structifying the Naughty List

# The Story

Santa burst into the dev lounge, chugging his third espresso. "Great job yesterday, nerds! The `is_nice` function? Chef's kiss. But now, I want structure. STRUCTURE! We're going full-on Rustacean. I need a `Kid` struct—immediately!"

The elves nodded enthusiastically, their tiny laptops open, running Arch Linux with bspwm because, obviously, they were that kind of devs. One elf, started yapping, "But Santa, why a struct? Isn't this just overengineered?"

# The Story

Santa slammed the table, shaking an untouched tray of gluten-free cookies. "No! A struct means no more random **strings** floating around. We need to encapsulate a kid's data—name, and niceness score. Plus, we'll need some methods to make sense of it all."

# The Story

The dev elves scrambled to work. In no time, they sketched out the basic blueprint. Santa glanced at the screen. "Not bad. But I will need this extended later. Keep it modular, bros!"

The room fell silent as the elves realized the implications. This was just the beginning of Santa's unhinged data modeling spree.

# Your Task

The elves need your help to finish the `Kid` struct.

Here is what you need to do:

- Add two variants to the `Niceness` enum: `Nice` and `Naughty`. `Nice` takes the number of good deeds.
- Add two fields to the `Kid` struct: `name` of type `String` and `niceness` of type `Niceness`.
- Move the `is_nice` function we created on [Day 3](#) to an [associated function](#) of the `Kid` struct.
- Finally, implement the `new()` associated function for the `Kid` struct.

# Hints

If you're stuck, here are some hints to help you get back on track:

- Use `Nice(u32)` to represent the number of good deeds.
- To define a field in a struct, use the syntax `field_name: field_type`, e.g., `name: String`.

# Hints

- An associated function is defined in the `impl` block without the `self` parameter.
- Associated `functions` are called with `::` instead of `.`,  
e.g. `Kid::is_nice(10, 1);`
- Use `Self::is_nice` or `Kid::is_nice` to call the associated function from within the `impl` block.