Platform Technical Screen

Objective

Imagine you work in Thoughtful's robotic automation factory, and your objective is to write a function for one of its robotic arms that will dispatch the packages to the correct stack according to their volume and mass.

Rules

Sort the packages using the following criteria:

- A package is **bulky** if its volume (Width x Height x Length) is greater than or equal to 1,000,000 cm³ or when one of its dimensions is greater or equal to 150 cm.

- A package is **heavy** when its mass is greater or equal to 20 kg.

You must dispatch the packages in the following stacks:

- **STANDARD**: standard packages (those that are not bulky or heavy) can be handled normally.

- **SPECIAL**: packages that are either heavy or bulky can't be handled automatically.

- **REJECTED**: packages that are **both** heavy and bulky are rejected.

Implementation

Implement the function `sort(width, height, length, mass)` (units are centimeters for the dimensions and kilogram for the mass). This function must return a string: the name of the stack where the package should go.

Submission Guidance

1. **Time Management**: Allocate no more than 30 minutes to complete this challenge.

2. **Programming Language**: You may use any programming language you're comfortable with. This is an opportunity to showcase your skills in a language you are proficient in.

3. **Submission Format**:

   - **Option 1**: Submit a public GitHub repository with clear README instructions.

   - **Option 2 (Preferred)**: Host your solution on an online IDE like Repl.it or CodePen for immediate code review. Ensure the link is accessible for direct execution.

4. **Evaluation Criteria**: Submissions will be assessed on:

   - Correct sorting logic.

   - Code quality.

   - Handling edge cases and inputs.

   - Test coverage.