

# Ruby on Rails Programming Task

This is a programming task for the Ruby developer role at Pannonians DOO.

The testability of code is very important to us so we are looking for clean, well-tested code. Please use the latest Ruby and Rails framework versions.

## The task

You are required to create a program which will allow someone to solve a Rubik's Cube.

The task will be testing for Ruby skills, Rails experience and problem-solving abilities.

Instructions for creating the task:

1. Create a new Rails project for your API
2. Create a service to store and retrieve the Rubik's cube. We are interested in what data structures you use to store the information.
3. Create endpoints that can rotate the various faces of the Rubik's cube
4. Present the cube in JSON after a GET request or a manipulation
5. Create unit tests that can show that your code works
6. Provide a description of how we can setup and run your system, any dependencies or commands to get the API running on a local machine

The minimum output we are expecting:

1. The Rubik's cube data being stored between requests
2. At least one endpoint that can rotate at least one face by 90 degrees
3. A request to show the cube in a JSON structure of your choice
4. Unit tests

Please feel free to approach it in any way you choose. The result does not have to be perfect, but it must showcase your skills in the best way possible.

The task should not take more than 3-4 hours to complete for a senior, up to 12h for a junior/medior with experience in the framework. Feel free to use ChatGPT or similar tools, if you're uncertain about anything, but be well prepared to explain the code in technical interview after the test task.