

Code Challenge

The Brewery - Transport Refrigeration Sensors

Meet Baz. He works at The Brewery, a boutique micro brewery based in rural NSW, creators of 6 unique beer varieties. Baz is responsible for driving the large transport truck, each Thursday delivering goods from the brewery to a range of pubs across metropolitan Sydney.

Each beer has its own specific refrigeration needs whilst being transported:

| | |
|--------|------------|
| Beer 1 | 4 °C - 6°C |
| Beer 2 | 5 °C - 6°C |
| Beer 3 | 4 °C - 7°C |
| Beer 4 | 6 °C - 8°C |
| Beer 5 | 3 °C - 5°C |

The refrigerated truck is loaded with multiple containers, each set to a specific temperature and each containing a thermometer sensor.

While driving, Baz is alerted if any of the containers fall outside of the temperature range. Unfortunately this is common due to factors such as when unloading the truck, the heat of Sydney summer or sometimes due to human error in leaving the container doors ajar.

Instructions

Develop a solution that shows Baz the current temperature of each container and notifies him when the temperatures are out of the correct range.

1. You can choose the coding language you feel best meets the user needs
2. Don't gold plate the solution. Make best use of the time available to you to deliver the most valuable solution
3. If you have any questions contact us or make your own assumptions and document them with the solution
4. The solution is not required to use a database server, if needed mock the data you will need internally in any of the application layers

5. The solution must be implemented with an acceptable level of automated tests
6. We prefer that you have this on a Git repository; Github, Gitlab or Bitbucket. If you can't then send us a zip file with your code or a link where we can download the package from
7. Make sure your package contains a readme file with any relevant information necessary to run your project, including:
 - a. What are the highlights of your logic/code writing style?
 - b. What could have been done in a better way?
 - c. Any other notes you feel relevant for the evaluation of your solution