**Specification A**

Cyberdyne System’s Skynet has a module which determines its power level. It makes this decision by looking at (i) the time, in minutes since midnight of the current day, and (ii) the vibration levels from its ground sensor as an integer. It uses this information in the following way:

- For the time inputs:
  - If the time is less than 0 or greater than 960, the power level is set to 100%
  - If the time is between 0 and 480 (inclusive), the power level is set to 50%
  - If the time is between 481 and 960 (inclusive), the power level is set to 25%

- For the vibration inputs:
  - For values less than 0 or above 50, the laser system is ENABLED
  - If the values are between 0 and 25 (inclusive), the laser is set to SLEEP
  - For values from 26 to 50 (inclusive), the laser is set to STANDBY

**Specification B**

Imagine a system meant to monitor the mosasaurus tank. The system is meant to alert Jurassic World workers when the conditions “require attention”. Specifically, the system takes two integer inputs, which are described below.

- The first parameter is the temperature of the water (in degrees Celsius). Valid readings are between 0 and 100 (inclusive). If an invalid reading is received, an “Invalid Sensor” exception occurs.
  - Valid readings are used to determine if the water is within an acceptable range. The acceptable range for the mosasaurus is between 30 and 40 degrees (inclusive).
  - If it is below 30 degrees, a “Too Cold” message is displayed.
  - If it is above 40 degrees, a “Too Hot” message is displayed.

- The second parameter is the pressure at the bottom of the tank (in kiloPascals). Valid readings are between 10 and 1000 (inclusive). Invalid readings result in an “Invalid Sensor” exception.
  - Provided the reading is valid, the pressure is used to determine the water level and tank occupancy.
  - A “Water Low” message is displayed if the valid pressure is below 530.
  - A “Tank Intrusion” message is displayed if the pressure is above 542.