

1. Task (XML Handling)

attached you received two XML files (compressed and uncompressed) of a sample reservation.

Please handle the XML with [nokogiri](#)

How would you use the XML-data to Create an OpenStruct with those values?

Be careful, it can happen, that we don't have any services. So be sure to handle the case, the Services object can be missing.

id: OTA_HotelResNotifRQ > HotelReservations > HotelReservation > ResGlobalInfo > HotelReservationIds > HotelReservationID -> ResID_Value (of Type 10)

external_id: OTA_HotelResNotifRQ > HotelReservations > HotelReservation > ResGlobalInfo > HotelReservationIds > HotelReservationID -> ResID_Value (of Type 16)

state: OTA_HotelResNotifRQ > HotelReservations > HotelReservation -> ResStatus

rate_plan: OTA_HotelResNotifRQ > HotelReservations > HotelReservation > RoomStays > RoomStay > RatePlans > RatePlan

services: OTA_HotelResNotifRQ > HotelReservations > HotelReservation > RoomStays > RoomStay > Services (Comma-separated list of included Services)

2. Task (Count array and sort)

Count matching objects in the array and create a sorted descending (Key, Value) hash.

['bed', 'pillow', 'bed', 'pillow', 'table', 'bed', 'pillow', 'door', 'light', 'minibar', 'light', 'chair', 'chair', 'light', 'light', 'hairdryer', 'soap']

3. Task (Handle positions)

You have a Model with name: string and position: integer

This represents the navigation. The Position number should be a row 1,2,3,4,5,...

ID	Name	Position
1	Weather	1
13	Portfolio	2
29	Points of interest	3
4	Events	4
7	News	5
9	Check-in	6

Create methods in the model to handle following cases:

- When an item was added, it should be placed at the bottom of the list (highest position number)
- When “Events” will be destroyed, the positions should now be 1-5 Check-in is 5

4. Task (Base64 to Image)

Convert the attached Base64 to an Image and save it in the Rails tmp directory.

5. Task (Delete duplicates)

Imagine a Database table with columns `id`, `name`, `created_at`

In this Database are some duplicates with the same name. Remove all duplicates and keep the newest row by it's `created_at` timestamp.