

Microservices with Go



Calculate the shipping box



Available boxes



ID	Width	Height	Length	Weight
1	10	10	20	50
2	10	20	20	50
3	15	20	25	80
4	15	30	50	100
5	30	30	60	120
6	40	40	40	120
7	50	40	45	120
8	60	60	50	150

The problems

1. Given x products with some $x - y - z$ dimensions being *width*, *height* and *length*, ¿what is the best box we can use to ship them?
2. If we add a new attribute w being the item's *weight*, ¿what changes are required in the algorithm to support this attribute considering the max weight supported by each of the boxes?
3. From the different solutions you can implement for this problem, ¿what is the best possible approach considering the performance for the algorithm?
4. Consider that we always need a result box.

Code structure

```
package shipping_box

type Product struct {
    Name string
    Lenght int
    Width int
    Height int
}

type Box struct {
    Length int
    Width int
    Height int
}

func getBestBox(availableBoxes []Box, products []Product) Box {

    //TODO: Complete!

    return Box{}
}
```