

KataLonja (Fish Market Kata)

This codekata was designed by Agilismo.com (Xavi Gost and Jose Manuel Beas) for the codingdojo celebrated in XGN 2001, at Santiago de Compostela, and this is the reason because there are fish in the Kata, but in fact the Kata hides another different problem.

In the Fish Market of a galician seaport, a galician entrepreneur has decided to sell fresh galician fish in other Europe's cities, and he is going to begin with a small van that is able to transport until 200 Kg of fish.

For the first travel he bought 50 Kg of scallops, 100 Kg of octopus and 50 Kg of spider-crab, but he asked where he should sell this merchandise to achieve the maximum benefit.

Our entrepreneur knows the selling price in the different local market:

€/Kg	MADRID	BARCELONA	LISBON
Scallops	500	450	600
Octopus	0	120	100
Centollos	450	0	500

Also the minimum cost of load the van is 5€ plus 2€/Km that he must go to the destination.

The distances to the possible destinations are:

- To Madrid: 800 Km
- To Barcelona: 1100 Km
- To Lisbon: 600 Km

And finally, the buyers estimate that the buying price of the merchandise is 1% deprecated per 100Km.

Remember, the goal is answer our friend entrepreneur **where he should sell her fish merchandise to achieve the maximum benefit.**