Minizic Project

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1 Project Description

Many a times we face a lot of difficulties while buying things online, as some of the shops have a higher shipping cost, some of them have a higher product cost.

We have come up with a solution by our project where you can purchase online, any products where our project will provide you the best results optimizing the product and shipping cost.

We have arranged the project in two ways. One can have two kinds of needs, one for the family, where more products needed to be bought with less price and one for a single individual whose target is to buy smaller products for personal or single use only.

We have used minizinc to model the project and pymzn to take input from user so that an user can select which package he or she needs. When we run the python file, one user will be asked which package he wants to get, where number 1 will be a family package and number 2 will be a single package.

When if user presses 1, he will be returned the best result where cost is optimized. Pressing 1, the python file will be calling the co1.mzn(Cost optimization) file and related .dzn files.

Pressing 2, the python file will call the so1.mzn (size optimization) file and associated .dzn files. In this way we have tried to create an online purchase system where two types of packages will be provided to any user and an user can select his or her required package. We have used, pymzn, minizinc to build this project.

2 How to run the project

We need to have any python compiler installed in the device. Next we need to install pymzn in order to run the .mzn files. There is a file named final.py provided, after following and completing the above steps if we run the file final.py , the project will be running. We have to change the name if the .dzn files inside the final.py as per the requirement, the .mzn files will remain unchanged.