

Instruction on how to run the program

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1 Instruction

To run the program, we only need PuLP package installed properly. Then just go to "our code" file.

1. If you want to run all the instances we have with both our implemented KBB algorithm and on PuLP, run the command "bash numerical.sh".
2. If you want to run on a particular set of instances on our implemented KBB algorithm, run the command "python main.py -f inst/knap_ n .inst.dat ". n represents the number of variables of instances in this set. For example, "python main.py -f inst/knap_20.inst.dat " would executes 20 dimensional instances. Additionally, the option -o would allow us to save the solution into files. For example, "python main.py -f inst/knap_20.inst.dat -o sol/knap_20.sol.dat" will execute the 20 dimensional instances and save the solution to a file under the folder "sol".