Article
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Trying Embedded Python

This is a first attempt to use Embedded Python in IRIS
The Python code is adapted from solutions for Advent of Code 2020 contest.
Test data are all input to my personal challenge.

Prerequisites

Make sure you have git and Docker desktop installed.

Installation

Clone/git pull this repo into any local directory

```
$ git clone https://github.com/rcemper/try_embedded_python
```

Open the terminal in this directory and run:

```
$ docker-compose build
```

this may take some time to complete

Run the IRIS container with this project:

```
$ docker-compose up -d
```

How to Test it

Using IRIS terminal:

```
$ docker-compose exec iris iris session iris "##class(rccpy.AoC20).Run()"
```

Welcome to embedded Python Demo
select day as described on https://adventofcode.com/
day 0 to exit
day (1..25) [1]:
+++++ starting : day1 +++++++++
select part (1,2,*=all,0=skip)* [] :1
part 1: 181044

```
select part (1,2,=all,0=skip) [] :2
part 2: 82660352
select part (1,2,=all,0=skip) [] :0
+++++++++ done : day1 +++++++++
day (1..25) [2]:
+++++ starting : day2 +++++++++
select part (1,2,=all,0=skip) [] :*
part 1: 456
part 2: 308
+++++++++ done : day2 +++++++++
day (1..25) [3]:
```

Hints

Directory **.stream/** contains all my input files and some public test data.
If you want to use your personal input you should replace them as 1 file by day.
e.g. input01.txt, input02.txt,..... ,input25.txt exactly as downloaded from AOC2020.

%SYS.Python.html is a preliminary class docu to see available functions

run time: for most tests, replies are pretty immediate.
But a few tests take quite a long time for calculations before showing a reaction.
Don't get nervous for days 11, 15!!, 17, 19, 22, 23.

GitHub AOC

GitHub Try

#Embedded Python #Python #InterSystems IRIS