

Article

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AOC2021-rcc

After >40 years of writing in-countable lines of code in M*/COS/ISOS (and a bunch of archaic languages) I decided for myself to set a strong signal for the future. We have Embedded Python available (still pre-release)! I just felt it as a sacrilege to ignore this excellent NEW opportunity and stay with the old sermon that I had used for decades.

Advent means the time of waiting and preparing for something important to come.



So to me, it meant Advent of Embedded Python Code that finally showed up in time. ALL class methods of 25 exercises + utility are exclusively written using Embedded Python. And I'm proud that it ranked as #3 completed by registered members of the Developer Community.

For later use I have added also

- all full descriptions of the exercises as Day*.md,
- a snapshot of the private leaderboard at the time of completion of the exercise,
- all test data, exercises input data and alternate exercises input data,
- result summaries for all Test examples, all Exercises, and all alternate Exercises.
- fully compatible with ZPM and therefore also available without Docker image So you are able to follow in all details.

Prerequisites

Make sure you have [git](#) and [Docker desktop](#) installed.

ATTENTION: The Community License of the IRIS preview image expires 12/1/2022

Installation

Clone/git pull the repo into any local directory

```
git clone https://github.com/isc-at/AoC2021-rcc.git
```

Open the terminal in this directory and build and run the IRIS container with your project:

```
docker-compose up -d --build
```

iris.script will import everything you place under /src into IRIS.

How to Test it

Open IRIS terminal:

```
$ docker-compose exec iris iris session iris
```

```
USER>do ##class(dc.aoc2021.Day1).Run()
```

- Extended Run parameters: `do ##class(dc.aoc2021.Day3).Run(part,test)` with `part = 1,2` ; run only first or second part of example, anything else = both `test = 0` ; use alternate input set `test = 1..n` ; run other tests as provided by example

```
; to run all exercises use
for day=0:1:25 do $classmethod("dc.aoc2021.Day"_day,"Run")
; to run all alteratete exercises use test=0
for day=0:1:25 do $classmethod("dc.aoc2021.Day"_day,"Run",,0)
; to run all first test examples use
for day=0:1:25 do $classmethod("dc.aoc2021.Day"_day,"Run",,1)
; to run ALL this with just one line
for day=0:1:25 for test=-1:1:1 do $classmethod("dc.aoc2021.Day"_day,"Run",,test)
```

Some exercises have more than 1 example:

Day8:2, Day12:3, Day16:15, Day18:10, Day22:3, Day24:none

```
; to run all test examlpes of day 16
for example=1:1:15 do ##class(dc.aoc2021.Day16).Run(,example)
```

Files `/data/ALL*.txt` hold all available results

[GitHub](#)

[#Docker](#) [#Embedded Python](#) [#InterSystems IRIS](#)

Source URL: <https://community.intersystems.com/post/aoc2021-rcc>