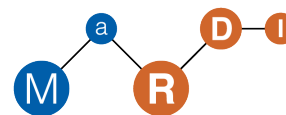**Title:** Algorithm to compute the number of carrots needed to complete a proof
Author(s): Jeroen Hanselman and Mardi the Math bunny

Date: November 5, 2024

Technical review

Basic Info

Files provided

☒ Source Code   ☐ Documentation
☐ Notebook   ☐ Computed data
☐ Examples   ☐ Files that verify
☐ Docker file/VM   computed data

Programming languages: Python 3.11.1
Standard software used: Magma V2.26-6
System specs used for review: 5.15.63-gentoo-dist with Intel(R) Xeon(R) CPU E5-2697A v4 @ 2.60GHz, 756GB

Version reviewed: No version numbering. Files reviewed were last changed on the 22nd of September 2022

Downloaded from: https://www.mardi4nfdi.de/

Importance of software in the paper

The repository contains the implementation of the algorithms and the results of the computations described in the paper.

Reproducibility (Installation)

License: ➖ No license found
Availability: ➕ The files were uploaded to GitHub
Readme: ➕ The repository contains a Readme explaining the contents of the Github.
Installation: ➕ Straightforward.

Installation steps taken

Magma Code:

- Cloned `https://github.com/MaRDItheMathbunny/MaRDICode` from GitHub

Reproducibility (Records of setup)

Specification of CPU: ➖ Did not find what CPU was used.
Specification of Memory: ➖ Did not find the amount of memory used.
Specification of OS/software used: ➖ Did not find which Magma version was used.
References and citation: Magma is cited. The other packages the software builds on or depends on are properly cited.

Reproducibility (Running the code)

Magma Code: ➕ The code seems to run fine. It does give a small error however:

```
In file "Carrot.m", line 587, column 9:
>> bunny := [ 0, 0, 0];
```

Correctness and Reliability

Recalculating the examples: ➖ I find it a bit hard to check whether the code produces the same results as what the authors got. There are a lot of files in the Github and it was unclear to me what files I should look at.

Readability

Annotation :   The code is clearly annotated.
Indentation and formatting: ➕ Consistent.
Naming of variables :   ➕ Consistent, meaningful and distinctive.

Comments

None.