

Practice I

Regular expressions

Introduction

- Bibliographic citations can be managed using specialized files
- These files have a specific format for identifying bibliographic information
- Two of the main types of files are BibTeX and RIS
- Despite their differences, equivalences can be found between the two file formats

Files format

BibTeX

```
@article{Smith2023,  
  author = {Smith, John and Doe, Jane},  
  title = {Título del artículo sobre un tema interesante},  
  journal = {Revista de Ciencia Avanzada},  
  year = {2023},  
  volume = {15},  
  number = {2},  
  pages = {125-148},  
}
```

RIS

```
TY - JOUR  
AU - Smith, John  
AU - Doe, Jane  
TI - Título del artículo sobre un tema interesante  
JO - Revista de Ciencia Avanzada  
PY - 2023  
VL - 15  
IS - 2  
SP - 125  
EP - 148  
ID - Smith2023  
ER -
```

Objective

- Create a program that converts a BibTeX file into a RIS file and vice versa for article and congress references.

Specifications

- Use regular expressions to extract information from BibTeX and RIS files
- Use the extracted information to generate the equivalent file format (from bib to ris and ris to bib)
- The program must handle all tag equivalences defined in tag_equivalence.csv

Evidence

- Upload to Teams the source code of your program and the test files resulting from the conversion