

# Obsah

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# 1. Introduction

## 1.1 Rough specification of the project

Create an election processing program with different election rules, elections will be processed using streaming algorithms.

## 1.2 Where is the project stored

Project is stored at Gitlab and at this Github.

## 2. More detailed specifications

### 2.1 Libraries

- Preflib.
- ...

### 2.2 Resources

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### 2.3 Algorithms

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## 2.4 Decomposition of the project

### 2.4.1 File tree

- src:  
Contains all source code.
- docs:  
Contains .tex files related to the project, specifications, user documentation, developer documentation. All at least in these languages:
  - Czech.
  - English.
- votes:  
Contains ballot files.
- test:  
Contains function tests in src.

### 2.4.2 Dekomposition of src

#### **main.py**

This is the main method it will read data from a file, call functions from other Python files that will contain individual voting stream algorithms, and more.

### **vote\_generator.py**

This is a file that will generate choices, in various ways:

- Exponential distribution.
- Normal distribution (Gaussian curve).
- ...

### **2.4.3 Files of individual election rules**

In the file `vote_rules`. It contains the implementation of individual election rules.

### **2.4.4 Sampling algorithms**

Selection of smaller number of tickets.