

**Title:** What language is that?

**Name(s):**

Student number(s) 65011328

email address(es): [65011328@kmitl.ac.th](mailto:65011328@kmitl.ac.th), [kasitphoom47@gmail.com](mailto:kasitphoom47@gmail.com)

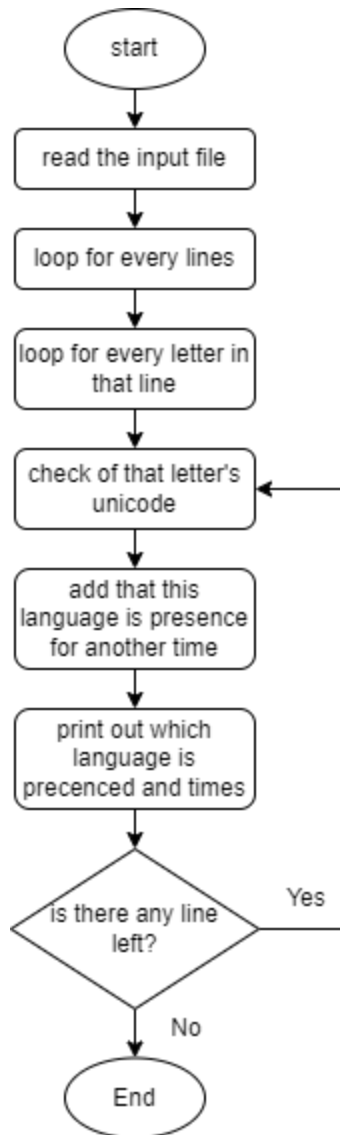
**Collaborator(s):** -

**Aim:** To identify which language is that of the given letter or sentence.

**Methods:**

- a) Tools:
  - a. A computer / laptop which has rust installed
  - b. Visual Studio Code for IDE
- b) Step in the experiment
  - a. Planning
    - i. Read through the instructions and given text file containing various sentence from many languages.
    - ii. Read roughly to detect some known languages for easier to find the information in next step (b).
    - iii. Plan how the program should operate.
  - b. Find the information
    - i. Find some information of the language of the letter.
  - c. Coding
    - i. Proceed the steps after planning in (1)(iii) then code with trial and error.
  - d. Checking the result
    - i. Run the code and look roughly that the result are expected or not. Then add *panic!()* in the code so that we check that no letter is left over.
- c) Difficulty
  - a. Due to some misunderstood of the instruction. Some steps or functions or tables are not necessary so that it make some confusion.
  - b. Making the code to provide the counting of presence of the language in each line have some difficult as there has to reset every time enter a new line.

d) Flow chart



**Results:**

a) Observations

- a. The results are as expected (count and recognize by hand)

b) Actual measurements

Text: 日本人は淡白な食べ物が好き println!("enter a character:");

Result: Line 0: Chinese (8), Japanese (5), ASCII (10), English (22),

**Conclusion:** As using unicode the language can be determined easily and accurately by the program.

**Acknowledgments:**

I acknowledge that all of the code written, and all of the result are addressed by myself, and all information are correct.

(Kasitphoom Thowongs)

**Appendix:****[These are the results]**

*Line 1: Chinese (8), Japanese (5), ASCII (10), English (22),*

*Line 2: Chinese (8), ASCII (4), English (15),*

*Line 3: English (14), ASCII (6), Accented Latin (1), Burmese (35),*

*Line 4: Korean (17), ASCII (6), English (7), Accented Latin (1),*

*Line 5: English (40), ASCII (7), Accented Latin (2),*