Part 3

1. find . -name "\*.tex"

2. find . -name "\*.tex" ! -name "template.tex"

3. find . -name "\*.tex" -exec wc -l {} \;

4. find . -type f \( -name "\*.tex" -o -name "\*.pdf" -o -name "\*.toc" \)

5. find . -name "Topic\_[7-9]\*.pdf" -o -name "Topic\_[1-9][0-9]\*.pdf" -o -name ".\_Topic\_[7-9]\*.pdf" -o -name ".\_Topic\_[1-9][0-9]\*.pdf"

6. find . -name '\*~' -delete

7. find . -type f -name '#\*#' -delete

8. find . -type f \( -name '??????.png' -o -name '??????.jpg' -o -name '??????.bmp' -o -name '?????.webp' \) > goodFiles.txt

9. find . -name "\*.log" > allTheLogs.log

10. find . -type f -name '\*C\*.aux' -exec awk 'FNR == 10 {print} ' {} \;

11. find . -type f -name '\*.sh' -exec chmod +x {} \;

12. grep -r " and " . | head -10 | cut -d: -f2- | head -n10 > allheads.txt

13. find . -type f \( -name '\*.png' -o -name '\*.jpg' -o -name '\*.jpeg' -o -name '\*.webp' \) -exec cp {} /home/maruj/1XC3\_L10/exercises/Part2/image\_backup/ \;

14. find . -name "filenames.txt" | xargs cat

15. cat ./exercises/Part2/allTheGlobs.txt | xargs -I {} find . -name "{}" -print

Part 4

1. grep -r --include="\*.tex" "\includegraphics" .

2.

3. grep -r "arbitrary\|bitwidth\|pointer" .

4. grep -r --include="\*S\*.tex" -E -w '(am|are|is|was|were|will be|has been|have been|had been|will have been)'

5. find . -name '\*.tex' -exec grep -Pzo '\\begin{itemize}\n\s\*\\item' {} +

6. grep -r -i -E --include="\*" "\\bpointer\\b.\*[{(]?[RSTLNErstlne]\\w\*" .

7. grep -r -o -w ' [[:alpha:]]\*[aeiou][^[:space:]]\*[aeiou][[:alpha:]]\* ' \*

8. grep -r -Pzo '(?s)if\s\*\(.+?\)\s\*\{(.|\n)\*?\}' \*

9. grep -r -E '^(int|void|float|char)\s+(\\*+\s\*)\*\w+\s\*\([^)]\*\)\s\*{' .

10. (Doesn’t work) grep -r -E '\b[0-9]+\s\*[-\+\\*/]\s\*[0-9]+\b' .

Part 5

1. find . -type f -name "\*.txt" -exec sed -i 's/backwards/forwards/g' {} \;

2. find . -name "\*.tex" -type f -exec sed -i '/\\includegraphics\[[^]]\*\]{[^}]\*}/d' {} \;

3. find . -type f -exec sed -i 's/\\begin{itemize}/\\begin{enumerate}/g' {} +

4. find . -type f -exec sed -i 's/\./[citation needed]./g' {} \;

5. find . -name "\*.tex" -type f -exec sed -i '100,300{s/\b\w\*ing\b/a gerund/g}' {} \;

6. sed -i '15,18d' \*.log

7. find . -type f -name '\*.tex' -exec sed -i 's/\\textbf{/\\textit{/g' {} +

8. find . -type f \( -name '\*.tex' -o -name '\*.txt' \) -exec sed -i 's/[aeiouAEIOU]//g' {} +

9. find . -type f -name '\*.tex' -exec sed -i -e '/^[[:space:]]\*%/d' -e '/^[[:space:]]\*[^\\]\*#/d' {} +

10. find . -type f \( -name "\*.tex" -o -name "\*.txt" \) -exec sed -i 's/[[:punct:]]/!/g' {} +

ROUGH:

Part 2:

13. cp \*.{png,jpg,jpeg,webp} /home/maruj/1XC3\_L10/exercises/Part2/image\_backup

**13.** find . -type f \( -name '\*.png' -o -name '\*.jpg' -o -name '\*.jpeg' -o -name '\*.webp' \) -exec cp {} image\_backup/ \;

Part 4:

4. grep -r --include="\*S\*.tex" -E "(am|is|are|was|were|be|been|being)\s+(\w\*ed\s+)?(\w\*ing\s+)?(will|shall|going to|gonna)\s+be|\b(has|have|had)\s+(been\s+)?(being\s+)?\w\*ed\s+|\bwill\s+(have\s+)?(been\s+)?(being\s+)?\w\*ed\s+to be" .

grep -r -i -E --include="\*" "\\bpointer\\b.\*[{(]?[RSTLNErstlne]\\w\*" .