CSE 259 Fall 2024

Project 1

1. Project description

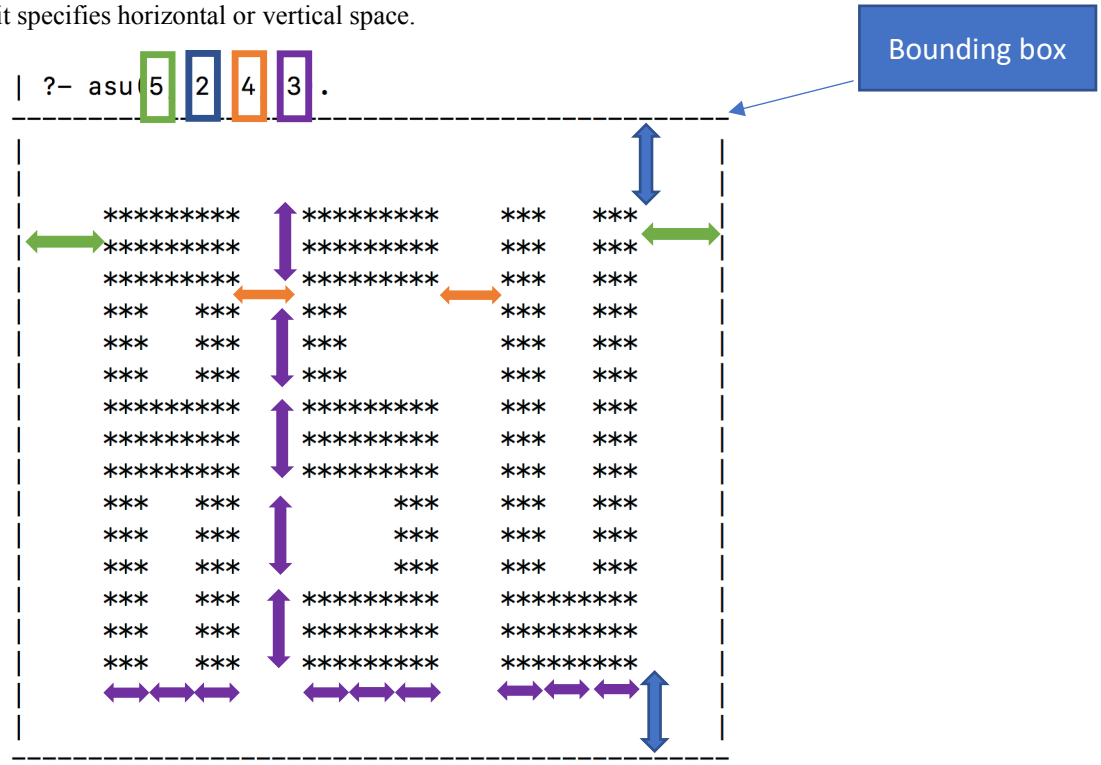
In this project, we are going to implement a prolog program that writes out ASU in various settings! Given that most of you are not familiar with prolog yet, we will make this project a ***small team project*** (***2-3*** students per team). Happy prolog!

2. Requirement specification:

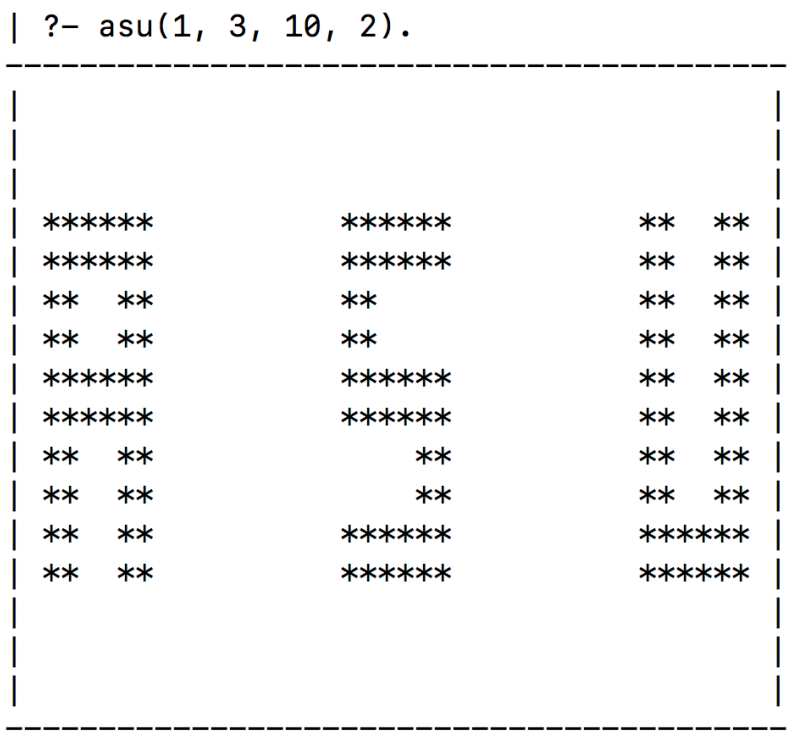
In this project, you must implement the following predicate in prolog:

| ?- **asu(*LeftRightMargin, BottomTopMargin, SpaceBetweenCharacters, FontSize*).**

Below is an example output that is expected of your program. Notice that the unit is given in ***text length or width***, depending on whether it specifies horizontal or vertical space.



Here is another example:



That's it! For boundary cases, where it is not possible to draw, print "no".

3. Submission:

Submission is ***electronically*** via canvas in a zip file. ***One and only one*** member must submit the file. It should contain the following files:

a. README.txt: this file should include names of you team members ***and*** each of your contributions; be precise
b. asu.pl: your code; make sure to test it thoroughly and ***comment*** properly.

4. Grading:

Grading will be based on the following criteria:

a. Whether you code satisfies the functional requirements (70%).
b. Boundary case checking (10%)
c. Comment (20%)

5. Hints:

a. There are four boundary case. Each will contain 2.5% (of the 10% marks assigned). Check them before you start drawing.
b. Drawing the box and 'A' will be shown in the class. Follow that to draw the other characters.
c. Get a piece of paper and a pen. Use a fixed size of font-size and draw. Try to come up with formulas using that and you will realize that having a fixed font makes it easier to generalize the formulas (so that any values we pass work!)