

# CSE 259 Spring 2025

## Project 1

### 1. Project description

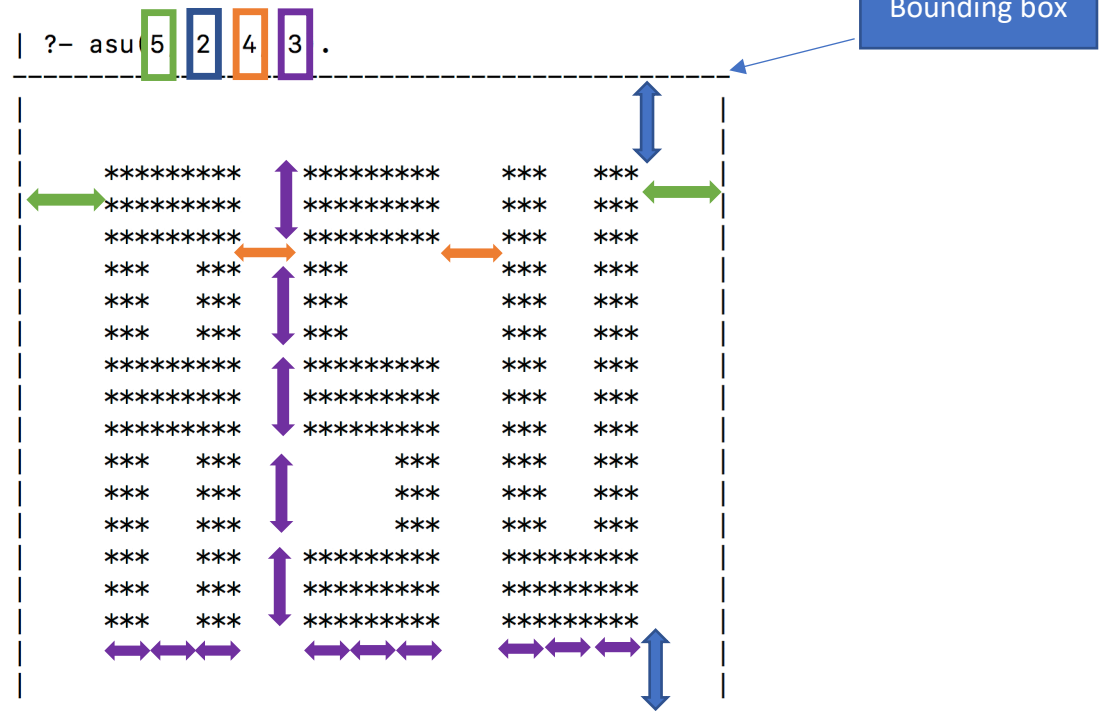
In this project, we are going to implement a prolog program that writes out ASU in various settings! Given that most of you are not familiar with prolog yet, we will make this project a *small team project* (2-3 students per team). Happy prolog!

### 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:

```
| ?- asu(1, 3, 10, 2).
```

```

*****          *****          **  **
*****          *****          **  **
**  **          **              **  **
**  **          **              **  **
*****          *****          **  **
*****          *****          **  **
**  **          **              **  **
**  **          **              **  **
**  **          *****          *****
**  **          *****          *****

```

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:

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

### 4. Grading:

Grading will be based on the following criteria:

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

### 5. Hints:

- There are four boundary case.** Each will contain 2.5% (of the 10% marks assigned). Check them before you start drawing.
- Drawing the box and 'A' will be shown in the class. Follow that to draw the other characters.
- 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!)