Logic Visualization IDE Plugin
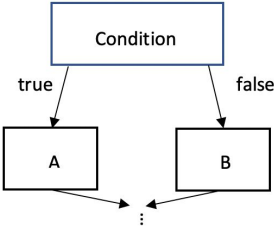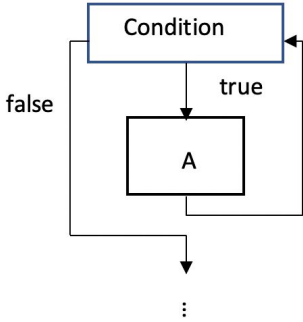
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Motivation

- Make understanding <u>foreign code</u> easier

- Help programmer debug

- Facilitate the learning experience for new learners in Computer Science

Approach

Building an IDE plugin to visualize the code and to translate graphs into code.

- Easier for people to understand what the functionality of the code (code -> graph)
- Help people focus more on the algorithm and logic rather than syntax during programming (graph -> code)
- Potentially increase efficiency in reading and writing code (both ways)

Example

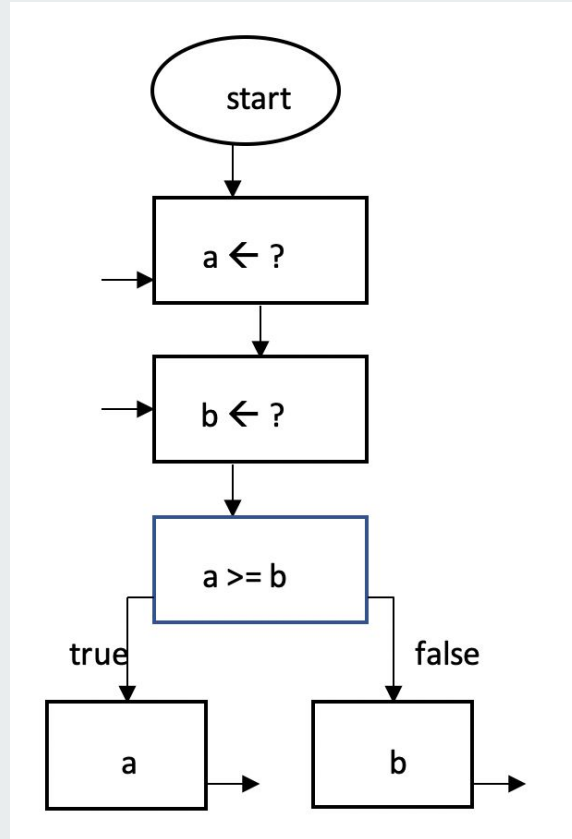Max function in Java:

```
Int max(int a, int b) {
        If(a >= b) {
                return a;
        } else {
                return b;
        }
}
```

Challenges and Risks

1. Dealing with different languages

    a. Create different graphing systems for each language

    b. Focus on one language for this project due to the time restriction

2. How to represent data structures