**School: Bellevue University**

**Class: Advance Python**

**Assignment: Forest Fire Simulation Program and Revised Flowchart**

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**Code Explanation**

The modifications made to the original forest fire simulation program include the addition of a lake feature, represented by the character '≈', which is colored blue. The lake is placed at the center of the display using the placeLake function. This function ensures that the lake is established in the forest data structure and that it acts as a firebreak by clearing any adjacent fire.

*Key Changes:*

1. **Lake Character and Position**: A new constant LAKE is defined to represent the lake, and its position is set to the center of the display using LAKE\_POSITION.
2. **Lake Placement**: The placeLake function is introduced to place the lake in the forest. It checks the surrounding area to ensure that fire cannot spread into or through the lake.
3. **Display Function**: The displayForest function is modified to include a condition for displaying the lake in blue, ensuring that it is visually distinct from trees and fire.

These changes enhance the simulation by introducing a strategic element where the lake serves as a barrier against the spread of fire, thereby enriching the overall dynamics of the forest fire simulation.

A diagram of a flowchart

Description automatically generated