Mermaid Code For Bubble Sort

```
graph TD;

Start --> InputList;

InputList --> Loop;

Loop --> CompareAdjacent;

CompareAdjacent --> |Yes| ContinueLooping;

CompareAdjacent --> |No| SwapIfNecessary;

SwapIfNecessary --> ContinueLooping;

ContinueLooping --> CheckSorted;

CheckSorted --> |Yes| RepeatIfNecessary;

CheckSorted --> |No| End;

RepeatIfNecessary --> Loop;

End;
```

Mermaid Code For Binary Search

```
graph TD;

Start --> InitializeVariables;

InitializeVariables --> CheckBounds;

CheckBounds --> |low > high| End;

CheckBounds --> CompareTarget;

CompareTarget --> |Element equals Target| ReturnIndex;

CompareTarget --> |Element > Target| UpdateHigh;

CompareTarget --> |Element < Target| UpdateLow;

UpdateHigh --> CheckBounds;

UpdateLow --> CheckBounds;

ReturnIndex --> End;

End;
```