

Airport Code Lookup

Closed Hashing Dictionary

Your goal is to simulate a closed hashing dictionary using the **Cursor Based** implementation and **Progressive Overflow**. The given set, hash logic, and virtual heap illustration are provided below. Your final output should be a document that includes (1) the final state of the virtual heap; and (2) the hash index for each code in the set.

```
Set A = {"JFK", "LAX", "SFO", "CDG", "LHR", "NRT",  
"ATL", "DXB", "PEK", "MIA", "SYD", "ORD"}
```

```
hash(code) == ((code[0] - 'A') * 26 * 26 + (code[1] -  
'A') * 26 + (code[2] - 'A')) % 10
```

Example:

```
hash("JFK") -> 4
```

