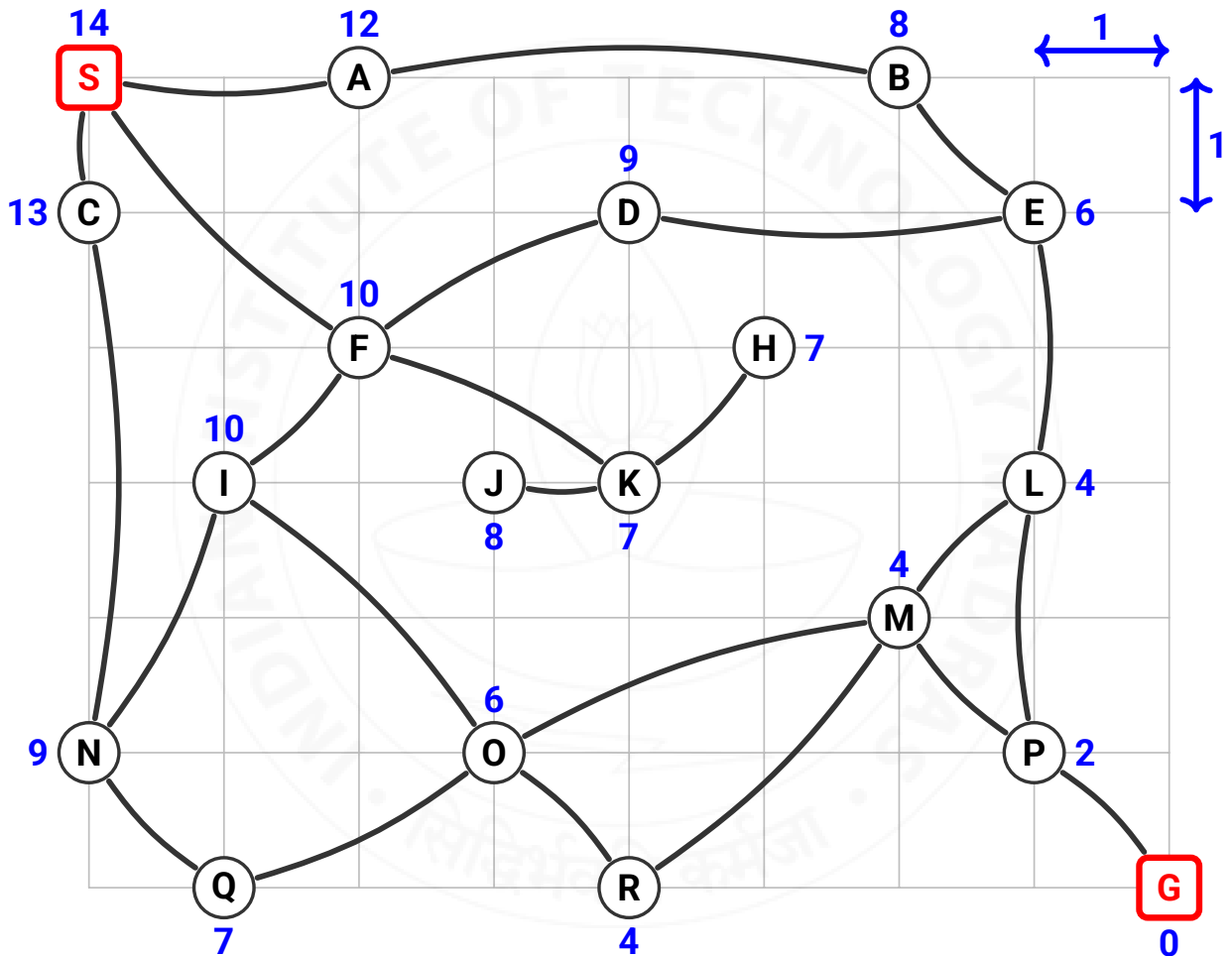


# Lecture Example: City 1 Hill Climbing

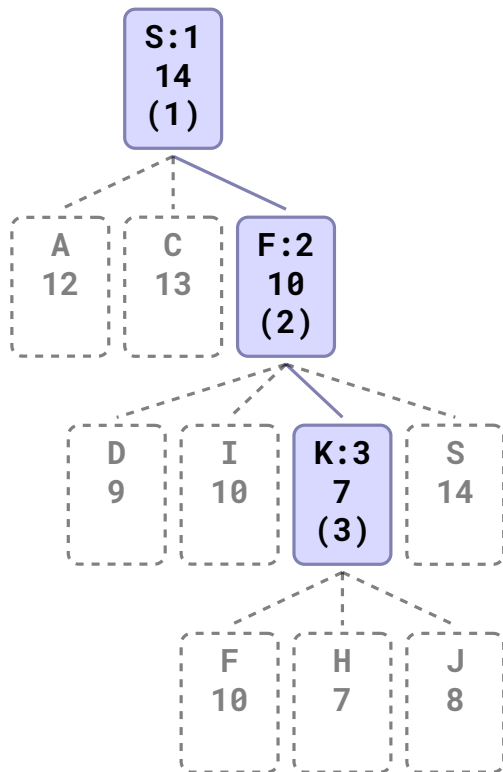
Prepared by S. Baskaran

## State Space

MoveGen returns nodes in ALPHABETICAL ORDER.



# Search Tree



# Solution

Triples: (NODE, PARENT, H-VALUE)

1.

```
NODE      S
close      (S,null,14)
moveGen    A:C:F:[ ]
children   (A,S,12):(C,S,13):(F,S,10):[ ]
```

2.

```
NODE      F
close      (F,S,10)
moveGen    D:I:K:S:[ ]
children   (D,F,9):(I,F,10):(K,F,7):(S,F,14):[ ]
```

3.

```
NODE      K
close      (K,F,7)
moveGen    F:H:J:[ ]
children   (F,K,10):(H,K,7):(J,K,8):[ ]
```