Hello World

March 24, 2016

1 Hello China

China is in East Asia.

SK66-Algorithm(G)

```
1  run Dijkstra's algorithm to calculate D(v_i, v_j),   v_i, vj ∈ s ∪ V_s ∪ t
2  let F = (f_{η,i}) be a new |V_s| × |V_s| matrix
3  for i = 1 to |V_s|
4        do F_{1,i} ← D(v_i, v_j)
5  for η = 2 to |V_s|
6        do for l = 1 to |V_s|
7             if η == l
8                then continue
9                else  F_{η,l} = min(F_{η,l}, D(v_i, v_j) + F_{η−1,l})
```

Insertion-Sort(A)

```
1  for j ← 2 to length[A]
2        do key ← A[j]
3           ▷ Insert A[j] into the sorted sequence A[1 . . j − 1].
4           i ← j − 1
5           while i > 0 and A[i] > key
6                 do A[i + 1] ← A[i]
7                    i ← i − 1
8           A[i + 1] ← key
```

Hash-Insert(T, k)

```
1  i ← 0
2  repeat  j ← h(k, i)
3          if T[j] = NIL
4             then T[j] ← k
5                  return j
6             else  i ← i + 1
7     until i = m
8  error hash table overflow
```

DAG-SHORTEST-PATHS(G, w, s)

```
1  topologically sort the vertices of G
2  INITIALIZE-SINGLE-SOURCE(G, s)
3  for each vertex u, taken in topologically sorted order
4        do for each vertex v ∈ Adj[u]
5              do RELAX(u, v, w)
```