

Kürzeste Pfade

Algorithm FLOYD-WARSHALL(W)

```
1: for  $i = 1$  to  $n$  do
2:   for  $j = 1$  to  $n$  do
3:      $d_{i,j} := w_{i,j}$ 
4:   end for
5: end for
6: for  $i = 1$  to  $n$  do
7:   for  $j = 1$  to  $n$  do
8:     for  $k = 1$  to  $n$  do
9:        $d_{j,k} := \min(d_{j,k}, d_{j,i} + d_{i,k})$ 
10:    end for
11:    if  $d_{j,j} < 0$  then
12:      STOP % Zyklen mit negativen Gewicht!
13:    end if
14:  end for
15: end for
16: return  $(d_{i,j})_{1 \leq i,j \leq n}$ 
```

Laufzeit: $\Theta(|V|^3)$.