

# Floyd-Warshall Algorithm

```
12  foreach (Vertex k: G):  
13      foreach (Vertex u : G):  
14          foreach (Vertex v : G):  
15              if  $d[u, v] > d[u, \mathbf{k}] + d[\mathbf{k}, v]$ :  
16                   $d[u, v] = d[u, \mathbf{k}] + d[\mathbf{k}, v]$ 
```

	A	B	C	D
A	0	-1	$\infty$	$\infty$
B	$\infty$	0	4	3
C	$\infty$	$\infty$	0	-2
D	2	$\infty$	$\infty$	0

