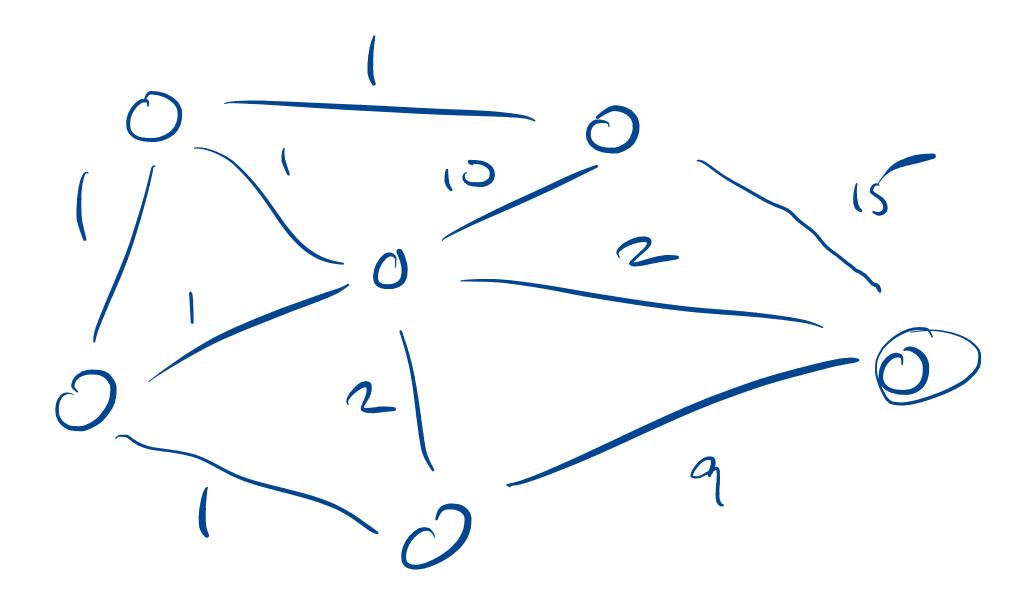
Computational Foundations for ML

10-607

lux \sim 1/2 w/2 Level K 1/2 x-1 level 10g2 9 +1 2(0) -)



C(j) = cost of shortest path to gral from j C(j,u) = (1)

 $C(j,n) = \min_{(i,j) \in E} (cij + c(i,n-1))$

 $C(j,0)=\infty$ $j \neq good$ init: C(goal, 0) = 0 for a = 1, ..., | v | -1 6 (V) iterations C (IVI) iterations for je nodes for i s.t. $(i)j \in E$ minimize C(i, nd) + Ci; 5hor (j, n) 0 (IVI) ites for n = 1, -..., |v| - 1 $for (i,j) \in E$ 0(101) O((C1) Its c(in) = min c(j,n), cij + c(i,n-1) O(1) cost

x for j & V C(j, n) & ao

sort a list of length i

for j = 1 --- ~

add two numbers

0 (10) bonded by
O(4 los 1)

0 (u2 10) m

0(2108

a Ssumption V- into, 1 a V 5 2. v-into, 1 a v C (a v d) (a v c) 1- intro, 2,3 4, $a \rightarrow (avb) \wedge (avc)$

6. avbvc