Dowest length path between a and it by using leachward lofs from t.

4)	

Abetionary\_ in fuy value  $0 \rightarrow [4]$   $1 \rightarrow [0,4]$   $2 \rightarrow [0,1,4]$   $3 \rightarrow [1,2]$  $4 \rightarrow [2,3]$ 

s=1, t=4	×	y	queue : g	visited	dist_olvet	met - diet
únitiali <del>x atio</del> n			<u>= 141 = </u>	145	hy 0 1 2 3 4	key 0 1 2 3 4
citiration 1 citiration 1.1 citiration 1.2	4	2	=1= =12= =12.131=	\2,4} \2,3,4}	hy 0 1 2 3 4 value [ 11 ] 0] hy 0 1 2 3 4 value [ 11 1 0]	Rey 0 1 2 3 4 Value \[ \left( \frac{1}{4} \right) \right] Rey 0 1 2 3 4 Value \[ \left( \frac{1}{4} \right) \right]
uturation & uturation & 1 uturation & 2	2	0	€13101€ €1310€	40,2,3,45 40,1,2,3,45	hy 0 1 2 3 4 value [2 11 0] hy 0 1 2 3 4 value [2 2 1 1 1 0]	Luy 0 1 2 3 4 value 2 4 7 Luy 0 1 2 3 4 value 2 2 4 4

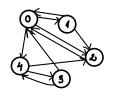
 $\alpha = A = A \Rightarrow STOF$ 

The path is built from next\_diet  $\frac{h_{u_1}}{value} \frac{0.1 \cdot 2 \cdot 3}{2 \cdot 2 \cdot 1 \cdot 1 \cdot 4}$  beginning with s = 1.

A = 1, meet[i] = 2, meet[a] = 4 = t

ypath =  $\begin{bmatrix} 1 & 2 & 4 \end{bmatrix}$ , length =  $\underline{\text{dist}} \begin{bmatrix} 1 \end{bmatrix} = \underline{\text{slist}} \begin{bmatrix} 1 \end{bmatrix} = \underline{\text{2}}$ 

[ Lowest leigth path between a and it by using backward lofs from t.



Attionary\_ in fuy value  $0 \rightarrow [1,1,3]$   $1 \rightarrow [0]$   $2 \rightarrow [0,1,4]$   $3 \rightarrow [4]$  $4 \rightarrow [0,3]$ 

s=2, t=4	×	l y	queue : g	virited	dist_olvet	næt - diet
únitiali <del>x</del> ation			<u>= 141 = </u>	1 4 5	hey 0 1 2 3 4 value [   0	Ley 0 1 2 3 4
iteration 1 iteration 1.1 iteration 1.2	4	0 3	€10€ €1013€	10,45 10,3,45	hey 0 1 2 3 4 value [1 0] hey 0 1 2 3 4 value [1 1] 0]	Ly 01234 value 4 1 34 Ly 01234 value 4 14
iteration & iteration &.1 iteration &.2	0	1 2	हाउग्रह हाउग्रह हाउग्रह	40,1,3,45 40,1,2,3,45	hey 0 1 2 3 4 value [1 2 ] 0] hey 0 1 2 3 4 value [1 2 2 1 0]	They 0 1 2 3 4 value [40 4] Aug 0 1 2 3 4 value [40 9]

 $\frac{1}{y} = \lambda = \lambda \implies 570P$ 

The path is built from next\_diet  $\frac{h_{u_1}}{value} \frac{0.1 \cdot 2 \cdot 3}{|u| \cdot 0 \cdot |0|}$  beginning with s = 2.

A=2, next [2]=0, next [0]=4=t

y path =  $\begin{bmatrix} 2 & 0 & 4 \\ 2 & 2 \end{bmatrix}$ ,  $\begin{bmatrix} 1 & 1 \\ 2 & 2 \end{bmatrix}$  =  $\begin{bmatrix} 1 & 1 \\ 2 & 2 \end{bmatrix}$  =  $\begin{bmatrix} 1 & 1 \\ 2 & 2 \end{bmatrix}$