24.1-1

Run the Bellman-Ford algorithm on the directed graph of Figure 24.4, using vertex z*z* as the source. In each pass, relax edges in the same order as in the figure, and show the d*d* and \pi*π* values after each pass. Now, change the weight of edge (z, x)(*z*,*x*) to 44 and run the algorithm again, using s*s* as the source.

2. Exercise 24.2-1, using vertex t as the source

D values

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| R | S | T | X | y |  |  |  |  |  |
| inf | inf | 0 | inf | inf |  |  |  |  |  |
| inf inf | inf | 0 | inf | inf |  |  |  |  |  |
| inf | inf | 0 | 7 | 4 |  |  |  |  |  |
| inf | inf | 0 | 7 | 4 |  |  |  |  |  |
| inf | inf | 0 | 7 | 4 |  |  |  |  |  |

Pai values