|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Step | N | D(s), p(s) | D(t), p(t) | D(v), p(v) | D(w), p(w) | D(x), p(x) | D(y), p(y) | D(z), p(z) |
| 0 | u | ∞ | ∞ | 3,u | 2,u | ∞ | ∞ | ∞ |
| 1 | uw | 6,w | ∞ | 3,u |  | 3,w | ∞ | ∞ |
| 2 | uwv | 6,w | ∞ |  |  | 3,w | 5,v | ∞ |
| 3 | uwvx | 6,w | 8,x |  |  |  | 5,v | 6,y |
| 4 | uwvxy | 6,w | 8,x |  |  |  |  | 6,y |
| 5 | uwvxys |  | 8,x |  |  |  |  | 6,y |
| 6 | uwvxysz |  | 8,x |  |  |  |  |  |
| 7 | uwvxyszt |  |  |  |  |  |  |  |

**Answer 6:**

The highlighted part is shortest path at each step that is considered and then the node is picked.

Final shortest path to each vertex

Shape

Description automatically generated with medium confidence