P3

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | D(u),P(u) | D(v),P(v) | D(w),P(w) | D(y),P(y) | D(z),P(z) | D(t),P(t) |
| x | ~~ | 3.x | 6.x | 6.x | 8.x | ~~ |
| xv | 6.v |  | 6.x | 6.x | 8.x | 7.v |
| xvw | 6.v |  |  | 6.x | 8.x | 7.v |
| xyvw | 6.v |  |  |  | 8.x | 7.v |
| xyuvw |  |  |  |  | 8.x | 7.v |
| xyuvwt |  |  |  |  | 8.x | 7.v |
| xyzuvwt |  |  |  |  |  |  |

P5

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | u | v | x | y | z |
| v |  |  |  |  |  |
| x |  |  |  |  |  |
| z |  | 6 | 2 |  | 0 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | u | v | x | y | z |
| v | 1 | 0 | 3 |  | 6 |
| x |  | 3 | 0 | 3 | 2 |
| z | 7 | 5 | 2 | 5 | 0 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | u | v | x | y | z |
| v | 1 | 0 | 3 | 3 | 5 |
| x | 4 | 3 | 0 | 3 | 2 |
| z | 6 | 5 | 2 | 5 | 0 |

P9

No, such structure will not form a loop. Loops are usually caused by a sudden increase in link cost.