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COSC370

Dr Lu

HW4

5)

a)

| Prefix | Link |
| --- | --- |
| 11100000 00 | 0 |
| 11100000 01000000 | 1 |
| 1110000 | 2 |
| 11100001 1 | 3 |
| Otherwise | 3 |

b)

| 11001000 10010001 01010001 01010101 | Otherwise Link 3 |
| --- | --- |
| 11100001 00000000 11000011 00111100 | Link 2 |
| 11100001 10000000 00010001 01110111 | Link 3 |

6)

| Range of destination addresses | Number of addresses |
| --- | --- |
| 00000000 – 00111111 | 64 |
| 01000000 – 01011111 | 32 |
| 01100000 – 01111111 | 32 |
| 10000000 – 10111111 | 64 |
| 11000000 – 11111111 | 64 |

14) 700 - 20 = 680

ceiling[2400 -20/680] = 4 fragments

Fragments 1, 2, 3 will be 700 bytes and flag = 1, ID = 422

Fragment 4 will be 360 bytes and flag = 0, ID = 422