

```
(3,5) Entry in M^2 = C (1 (0)) (1) = (1x1) + (1x1) + (0x0)
                                                                      so ... continue the warks count:
                                                                          13-7 V (-> V3 K V3-7 V2-> V3
       m^2 \times m = m^3
       m_2 \times m = \begin{pmatrix} 0 & 0 & 5 \\ 1 & 1 & 0 \\ 0 & 0 & 5 \end{pmatrix} \times \begin{pmatrix} 0 & 0 & 1 \\ 0 & 0 & 1 \\ 0 & 0 & 1 \end{pmatrix}
       h01 (3'5)  futh h01 (005) (0) = (0x0) + (0x0) + (1x1)
       number of Halks length = 3 from 13 and 2 from 12
* Draw adjacency matrix, m graph:
        HENCE, graph = V2 V1 Y3
* m^3 without calculation: m^3 \begin{pmatrix} 0 & 2 & 2 \\ 2 & 0 & 0 \\ 2 & 0 & 0 \end{pmatrix}
* m3 ustn casculation:
      m_2 = m_X m_z \begin{pmatrix} 0 & 1 & 1 \\ 1 & 0 & 0 \\ 1 & 0 & 0 \end{pmatrix} \times \begin{pmatrix} 0 & 1 & 1 \\ 1 & 0 & 0 \\ 1 & 0 & 0 \end{pmatrix}
      m_3 = m_2 \times m = \begin{bmatrix} 0 & 1 & 1 \\ 1 & 0 & 0 \\ 1 & 0 & 0 \end{bmatrix} \times \begin{bmatrix} 0 & 1 & 1 \\ 1 & 0 & 0 \\ 1 & 0 & 0 \end{bmatrix} \times \begin{bmatrix} 0 & 1 & 1 \\ 1 & 0 & 0 \\ 1 & 0 & 0 \end{bmatrix}
```