



(c) A matrix representation of the graph structure. The matrix is a 7x7 grid with a final column of values. The rows are labeled a, b, and c. The matrix is:

$$\begin{bmatrix}
 0 & 3 & 0 & 0 & 0 & 0 & 2 \\
 3 & 0 & 3 & 0 & 3 & 1 & 0 \\
 0 & 3 & 0 & 3 & 0 & 0 & 2 \\
 0 & 0 & 3 & 0 & 1 & 0 & 0 \\
 0 & 3 & 0 & 1 & 0 & 0 & 2 \\
 0 & 1 & 0 & 0 & 0 & 0 & 2 \\
 2 & 0 & 2 & 0 & 2 & 2 & 0
 \end{bmatrix}
 \begin{matrix}
 5 \\
 10 \\
 8 \\
 4 \\
 6 \\
 3 \\
 3
 \end{matrix}$$