Task: write a package or a function that can compute Adjacency matrix and Q
Input: Power Level
Output: D(Adjacency matrix) and Q

Example1:
Input:1
Output:

D: a $4X4$ adjacency matrix $\begin{bmatrix} 0,1,1,0 \\ 1,0,0,1 \\ 1,0,0,1 \\ 0,1,1,0 \end{bmatrix}$

Q: $\begin{bmatrix} q_1 D^T D, & 0, & 0, & 0 \\ 0, & q_2 D^T D, & 0, & 0 \\ 0, & 0, & q_3 D^T D, & 0 \\ 0, & 0, & 0, & q_4 D^T D \end{bmatrix}$

Example 2:
Input:2
Output:

D:a $16X16$ adjacency matrix(I will just list the values for the first row and first column) $\begin{bmatrix} 0,1,0,0,1,0,0,0,0,0,0,0,0,0,0,0 \\ 1, \\ 0, \\ 0, \quad . \\ 1, \quad\quad . \\ 0, \quad\quad\quad . \\ 0, \quad\quad\quad\quad . \\ 0, \quad\quad\quad\quad\quad . \\ 0, \\ 0, \quad\quad\quad\quad\quad\quad\quad . \\ 0, \\ 0, \\ 0, \\ 0, \\ 0, \\ 0, \end{bmatrix}$

Q: $\begin{bmatrix} q_1 D^T D & & & \\ & q_2 D^T D & & \\ & & . & \\ & & & . \\ & & & . \\ & & & q_{16} D^T D \end{bmatrix}$