1 (a)

The code reads the first line of the ~~code~~ input file and assigns the values of N and M to the variables v[vertex] and e[edge]. It creates two dimentional list called adj_mat, which will store the adjacency matrix. The list has V+2 rows and V+1 columns, and each element is initialized to 0. The extra row and column are for indexing convenience, since the vertices are numbered from 1 to V. It loops through the next e lines of the input file, each containing three integers. The code assigns the value of w to the element at row u and column v in the ad_mat list. This way the adjacency matrix is filled with the weights of the edges. It loops through the ad_mat list and writes each element to the output file, separated by a space.