1. Data Cleaning

    a) What is the motivation for cleaning data?

    b) Does the data cleaning affect the later processing stages?

    c) In the case of Web pages, what is the task of data cleaning?

2. Find the eigenvalues and eigenvectors of the following matrix. Normalize the eigenvectors to unit vectors.

$$\mathbf{A} = \begin{pmatrix} 3 & -7 \\ 1 & -5 \end{pmatrix}$$