CSE 106: Data Structures and Algorithms I Sessional Online: Dynamic Programming (C1+C2)

Coin Changing Problem

Suppose, we have a currency system with n types of notes. The values of the notes are $\nu_n,...,\nu_n$. Now, we want to pay an amount V (exactly) with as few notes as possible (you can use each note as many times as you wish). Implement a dynamic programming algorithm for this problem. You can assume that in that currency system making all amounts is possible.

Input format:

The first line will contain an integer n denoting the number of notes. The next n lines will contain their values. Finally, the last line will contain the amount V.

