

Greedy Algorithms

Greedy algorithm obtains the solution of a problem by making a sequence of choices. At each decision point, the best possible choice is made.

In this online, you have to implement greedy algorithm for a defined problem. You have to read the inputs from a file. Also you have to show the performance of your implementation by printing the running time.

Change in Canonical Coin System

Given a set of coins and a value, find the minimum number of coins to make up that value. Coins may be in arbitrary order.

The basic idea is to solve this problem, you have to repeatedly choose the largest coin less than or equal to the remaining sum, until the desired sum is obtained.

There are available coins are 1 cent, 2 cents, 5 cents, 10 cents, 25 cents. Make change for 150 cents, using minimum number of coins by looping over the array. Find the minimum number of coins is needed.