

Name: _____

CSSE/MA 473 Worksheet for Class #24
January 22, 2021

Greedy Strategy

1. Interpret each term, and describe what conditions allow the greedy technique to find the optimal solution.

In greedy strategy, choices made are...

- Feasible
- Locally optimal
- Irrevocable

Greedy strategy succeeds when the problem satisfies...

- Principle of optimal substructure
- Greedy property

Change-making problem

2. Given denominations 25¢, 10¢, 5¢, 1¢, make change for $n = 48$ ¢. Does the greedy strategy work?
3. Given denominations 25¢, 10¢, 1¢, make change for $n = 30$ ¢. Does the greedy strategy work?