Katie Davenport

CS 5008 - Homework 11

The <u>fewest coins</u> required to create the value of change

Rows:
- Row N allows nickels (N)
- Row D allows nickels (N) and dimes (D)
- Row Q allows nickels (N), dimes (D), and quarters (Q)

| Name | Value | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
|------|-------|-----|-----|--------|-----|--------|--------|--------|----------|--------|------|
| N | 5 | 1N | 2N | 3N | 4N | 5N | 6N | 7N | 8N | 9N | 10N |
| D | 10 | 1N | 1D | 1D, 1N | 2D | 2D, 1N | 3D | 3D, 1N | 4D | 4D, 1N | 5D |
| Q | 25 | 1N | 1D | 1D, 1N | 2D | 1Q | 1Q, 1N | 1Q, 1D | 1Q,1D,1N | 1Q, 2D | 2Q |