|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I\j | J=0 | J=1 | J=2 | J=3 |
| 0 | 0 | 0 | 0 |  |
| 1 | 0 | 1 | 1 |  |
| 2 | 0 | 2 | 2 |  |
| 3 | 0 | 3 | 3 |  |
| 4 | 0 | 4 | 4 |  |
| 5 | 0 | 5 | 5 |  |
| 6 | 0 | 6 | 6 |  |
| 7 | 0 | 7 | 1 |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

J=2 (picking first two(j) coins of denominations {1,7,10}) and i=7(making total value = 7)

V(7,3)=1

V(i,j) =minimum number of coins required to make a sum of ‘i’ with first j+1 coins

|  |  |
| --- | --- |
| I/j | d1=2 (j=1) |
| 0 | 0 |
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 1 |

1+V(i-dj,j)=1+ V(7-7)=1+V(0)