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procedure change( $c_1, c_2, \dots, c_r$ : values of denominations of coins, where  
     $c_1 > c_2 > \dots > c_r$ ;  $n$ : a positive integer)  
for  $i := 1$  to  $r$   
     $d_i := 0$  { $d_i$  counts the coins of denomination  $c_i$  used}  
    while  $n \geq c_i$   
         $d_i := d_i + 1$  {add a coin of denomination  $c_i$ }  
         $n := n - c_i$   
{ $d_i$  is the number of coins of denomination  $c_i$  in the change for  $i = 1, 2, \dots, r$ }
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Trace - we have  $c_1 = 25$ ,  $c_2 = 10$ ,  $c_3 = 5$ ,  $c_4 = 1$ , and  $n = 67$ .

N	67			17		7		2		
I	1			2		3		4		
R	4	4	4	4	4	4	4	4	4	
Di	D1=0			D2=0		D3=0		D4=0		
Ci	C1=25			C2=10		C3=5		C4=1		
n>=Ci	67>=25:T	42>=25:T	17>=25:F	17>=10:T	7>=10:F	7>=5:T	2>=5:F	2>=1:T	1>=1:T	0>=1:F
Di=Di+1	D1=1	D1=2		D2=1		D3=1		D4=1	D4=2	
N=N-Ci	42	17		7		2		1	0	
Di		D1=2		D2=1		D3=1			D4=2	