

Full-Position-Recovery(i, j, F, \mathcal{F})

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1 if ( $i > |\mathcal{M}|$ ) then  
2    $\lfloor$  Add  $F$  to  $\mathcal{F}$ ;  
3 foreach ( $j' \in [j, |\mathcal{P}_i|]$  such that  $(\mathcal{P}_i[j'] - F[i - 1] - 1 = d) \in [l_i, u_i]$ ) do  
4    $\lfloor F[i] \leftarrow \mathcal{P}_i[j']$ ;  
5    $\lfloor$  Full-Position-Recovery( $i + 1, \mathcal{N}_i[j'], F, \mathcal{F}$ );  
6 if ( $i=2$ ) then  
7    $\lfloor$  Return  $\mathcal{F}$ ;
```