Indexed-Recovery(i, j, F)

1 **if** $(i > |\mathcal{M}|)$ **then**

2 $\quad$ Add F to $\mathcal{F}$;

3 **foreach** $(|\mathcal{P}_i| \geq j' \geq j$ *such that* $(\mathcal{P}_i[j'] - F[i-1] - 1) \in [l_i, u_i])$ **do**

4 $\quad$ $F[i] \leftarrow \mathcal{P}_i[j']$;

5 $\quad$ Indexed-Recovery$(i+1, \mathcal{N}_i[j'], F)$;

6 **if** *(i=2)* **then**

7 $\quad$ Return $\mathcal{F}$;