$Loop\ over\ all\ substructures$	for $s = 1,, N$ do
Convergence indicator	$t_i^s = rac{\langle W_i oldsymbol{lpha_i}, F^{[s]} oldsymbol{\mathrm{W}}_i oldsymbol{lpha_i}  angle}{r_{i+1}{}^T S^{[s]} r_{i+1}}$
Sort in ascencing order	$\operatorname{sort}(\mathbf{t}_i)$
Sort substructure index vector in the s	same way
$For \ b=1:numblocks$	
For the current block b of substru	icture indices
Add up search directions	$\mathbf{z}_{i+1}^b = \mathbf{z}_{i+1}^b + \mathbf{S}^{[s]}\mathbf{r}_{i+1}$
Concatenate blockwise search die	rections $\mathbf{Z}_{i+1} = [\mathbf{z}_{i+1}^1     \mathbf{z}_{i+1}^{numblocks}]$