Algorithm 1 Greedy algorithm

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1:	procedure Search(statement_list)
2:	Extract Candidate statements from statement list
3:	
4:	$\textbf{for } \textbf{Candidate } \textbf{statements } \textbf{do} \qquad \qquad \blacktriangleright \textbf{ Become Producer } \textbf{statement}$
5:	${f for}$ Candidate statement's Consumer statements ${f do}$
6:	if Pass Rules then
7:	Merge
8:	Update statement list
9:	Break loop
10:	
11:	if Merge is performed then
12:	Break loop
13:	
14:	if No Merge then return statement list
15:	else
16:	Recursively call Search