R(A, B)   S(B, C)

Counter
pointer

$i \rightarrow$

1	10
1	20
2	30
2	40

$i+1 \rightarrow$

Counter
pointer

match

| 10 | 75 | $\leftarrow j$
| 10 | 85 | $\leftarrow j+1$
| 30 | 95 |

unmatch

match

unmatch

Match   if $R.B = S.B$
         skip to the next pointer (tuple)

unmatch   if $R.B \neq S.B$
           return the tuple in $R(A,B)$