[a;b;c]
$$\xrightarrow{I(c,0); S(3,c,s)}$$
 [c;a;b;s] $\xrightarrow{D(1); S(d,1)}$ merge(c,d,s) = f $\xrightarrow{S(3,s,f)}$ D(2);

S(1,d,f); I(c,0) (c;a;f]