$\sigma : \sigma, \ \sigma : \#$ $\operatorname{start} \longrightarrow \left(0\right) \xrightarrow{\sigma:\sigma} \left(1\right) \xrightarrow{\sigma:\sigma} \left(2\right) \xrightarrow{\sigma:\sigma'} \left(3\right)$ A DFT T_i that computes the seq2seq language $g(w', p) = I_{L_{\mathbf{SWap}(p,i)}}(w')$ for i = 3. σ (resp. σ') refers to any symbol in Σ (resp. $\Sigma_{\#}$).