S M T W T F S

## H2 Take-home Exercise

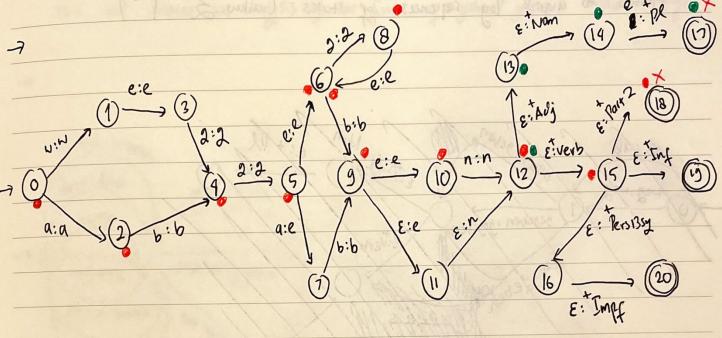
## H2.1 Finite state transducers for morphological analysis

(1) Construct on FST from:	surface from	letical analysis				
	augab	abyeben + Verb + Persissy + Impf abyeben + Verb + Inf abyeben + Verb + Part 2				
	abgeben					
	abgegeben					
	abgeyetenl	abgegeben + Ady + Nom + Pl v				
0/6	weggab	weggeben + Verb + Persissy + Impf v				
	Weggeben	weggeben + verb + Inf				
	weggebenen	weggeben + Verb + Part 2				
	weggegebene	vegebenen + Adj + Num + Pl v				

live: Automation may any consume/produce up to 1 symbol from input fourput topes when transationing from one state to the next.

(2) Apply matching algorithm to "abyegebenen" and note all intermediate steps.

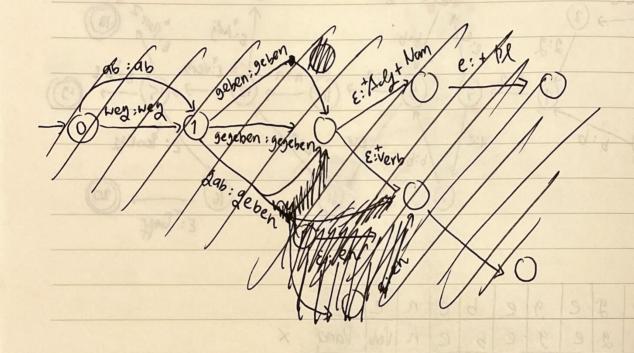
S M T W T F S

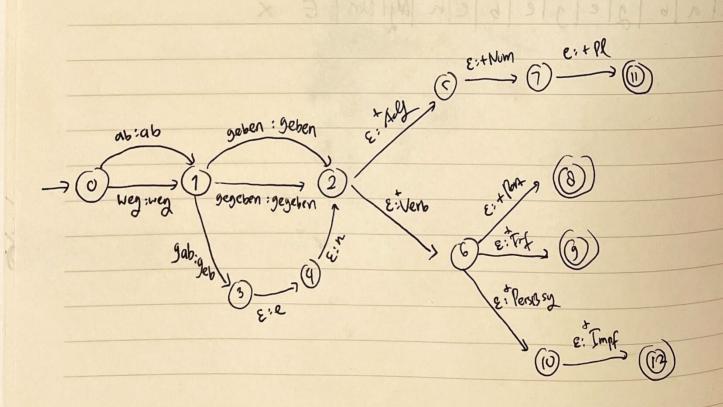


	In	a	ь	9	e	9	e	b	e	n	e	n	Y		
0 0	crut 1	a	6	2	e	9	e	6	e	n	Verb	Part2	*		
0 %	ou 2	a	Ь	2	e	9	e	b	e	n	Adj	lum	E	×	

(3) Consolidate automation by albuing edge inscriptions that combine multiple symbols to avoid log sequences of states. (allow & : [\*)

S M T W T F





(4) Add additional prefixes to automation: durch-, ay-, bekannt-, zonick-and zu- and enable the analysis of the firms of geban/geyoben without prefix

be kannt: bekannt

| bekannt: bekannt
| durch: durch
| gebon: gebon
| gebon: gebo