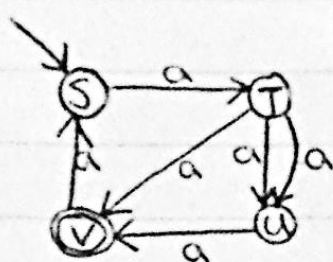


2. $\{A, B\}$

in: $\{ \epsilon, A, AA, AAA, AB, ABA \}$

out: $\{ B, BB, BBB, BA, BAA \dots \}$

3.



(recognise almost all words made of as but not:)

$$\{A\} = \{\epsilon, A, AAAA.\}$$

4. Table

	A	B		A	B
$\rightarrow S$	T	—	}	$[S]$	$[T]$
T	U	u, v		$[T]$	$[u]$
U	V	—		$[u]$	$[v]$
V	S	—		$^*[v]$	$[s]$
end final state $\star V$				$^*[u, v]$	$[v, s]$
				$^*[v, s]$	$[t, s]$
				$[t, s]$	$[t, u]$
				$[t, u]$	$[v, u]$

diagram

