(K) The Dualization Game (1/2)

K1. Any three nouns that end in x, s, or z and take an -es plural ending – ideally one each for each of those three last letters. For example, buzz \Rightarrow buzzes, class \Rightarrow classes, tax \Rightarrow taxes.

K2. * quiz \Rightarrow quizes, * child \Rightarrow childs

K3. * nidaahné ⇒ niahné, * nidaniiché ⇒ niniiché

K4. Complete Dualizer Machine 2.0 (cells not given in question are bolded):

Entry state	Read	Write	Move	Exit State
SØ	d	Ø	R	SI
SØ	[otherwise]	[N/A]	R	SØ
SI	[otherwise]	ø	L	S2
S2	[otherwise] or Ø	[N/A]	L	S3
S3	i	[N/A]	L	S4
S3	[otherwise]	[N/A]	[N/A]	HALT
S4	n	[N/A]	R	S5
S4	[otherwise]	[N/A]	[N/A]	HALT
S5	[otherwise]	a	[N/A]	HALT

K5. Complete Second-Personizer Machine (cells not given are bolded):

Entry state	Read	Write	Move	Exit State
SØ	s	ł or others	R	SI
SØ	[otherwise]	[N/A]	R	SØ
SI	h	Ø	L	S2
SI	[otherwise]	[N/A]	L	S2
S2	[otherwise]	[N/A] or ł	L	S3
S3	í	[N/A]	[N/A]	HALT
S3	[otherwise]	[N/A] or i	L	S4
S4	i, í	[N/A]	[N/A]	HALT
S4	у	n	[N/A]	HALT
S4	[otherwise]	[N/A]	R	S5
S5	[otherwise]	í	[N/A]	HALT

Any other letter, [N/A], and \emptyset are all acceptable answers here – however, if an answer other than 1 is given, the Write column of S2 must be 1. If 1 is given in S0 Write, either answer is acceptable for S2 Write.



(K) The Dualization Game (2/2)

K6. íísínísts'áá' will be transformed unsuccessfully. Both verbs have predictable second-person forms (íísínísts'áá' and bighánísdééh respectively), but the machine will attempt to apply its transformations on and around the first s in íísínísts'áá', rather than the second s. The unsuccessful output for this verb will be íísínísts'áá'.