

LOWERCASE

straight>straight
(udlijqhmna)R
L(ublijphmnr)

nonnnnnono
nonnunono
nonnbnono
nonninono
nonnjnono
nonnpnono
nonuunono
nonubnono
nonuinono
nonujnono
nonupnono
nonunnono
nonqunono
nonqbnono
nonqinono
nonqjnono
nonqpnono
nonqnnono
nonjunono
nonjbnono
nonjinono
nonjjnono
nonjpnono
nonjnnono
nonnunono
nonnbnono

nonninono
nonnjnono
nonnpnono
nonnnnono
nonaunono
nonabnono
nonainono
nonajnono
nonapnono
nonannono
noniunono
nonibnono
noniinono
nonijnono
nonipnono
noninnono

straight>full round
(udlijqhmna)R L
(ceodqgð)
nonuonono
nonugnono
nonuðnono
nonqonono
nonqgnono
nonqðnono
nonjonono
nonjgnono
nonjðnono
nonionono
nonignono

noniðnono
nonnonono
nonngnono
nonnðnono
nononono

(bpo)R L(ublijphmnr)
nonounono
nonobnono
nonojonon
nonoionon
nonononon

straight>small round
(udlijqhmna)R L(as)
nonuanono
nonusnono
nonqanono
nonqsnono
nonjanono
nonjsnono
nonaanono
nonasnono
nonianono
nonisnono
nonlanono
nonlsnono
nonnanono
nonnsnono

(s)R L(ublijphmnr)
nonsunono

nonsbnono
nonsnonon
nonsjnonon
nonslnonon

straight>void
(udlijqhmna)R
L(vwyzx)

nonavnono
nonaynono
nonaznono
nonaxnono
nonuvnono
nonuynono
nonuznono
nonuxnono
nonqvnono
nonqwnono
nonqynono
nonqznono
nonqxnono
nonjvnono
nonjynono
nonjznono
nonjxnono
nonivnono
noniynono
noniznono
nonixnono
nonvnono

nonynono	nonxjnono	nontbnono	nonooonon
nonznono	nonxpnono	nontnonon	
nonxnono	nonxbnono	nontjnonon	full > small
		nontlonon	(bpo)R L(as)
(kvwyzxr)R	straight>open	nontpnnonon	nonoanonon
L(ublijphmnr)	(udlijgqhmna)R L(afts)	nonfunono	nonpaonon
nonrunono	nonufnono	nonfbnono	nonosnono
nonrlnono	nonuanono	nonfnnonon	nonpsonon
nonrjnono	nonutnono	nonfjnonon	
nonrpnono	nonusnono	nonflonon	(as) R L (ceodqgð)
nonrbnono	nonqfnono	nonfpnnonon	
	nonqanono	nonrunono	nonaonono
nonkunono	nonqtnono	nonrbnono	nonaenono
nonklnono	nonqsnono	nonrnnonon	nonagnono
nonkjnono	nonjfnono	nonrjnonon	nonadnono
nonkpnono	nonjanono	nonrlonon	nonaðnono
nonkbnono	nonjtnono	nonrpnnonon	nonsonono
	nonjsnono	noneunono	nonsenono
nonvunono	nonnfnon	nonebnono	nonsgnono
nonvlnono	nonnanon	nonenonon	nonsdnono
nonvjnono	nonntnon	nonejnonon	nonsðnono
nonvpnono	nonnsnon	nonelonon	
nonvbnono		nonepnnonon	full > void
	(ctfre) R L(ublijphmnr)		(bpog)R L(vwyzx)
nonzunono	noncunono	full round >full round	nonovnono
nonzlnono	noncbnono	(bpo)R L (ceodqgð)	nonpvnnon
nonzjnono	noncnnonon		nonbvnono
nonzpnono	noncjnonon	nonocnono	nongvnono
nonzbnono	nonclonon	nonoenono	nonownono
	noncpnonon	nonognono	nonpwonon
nonxunono	nontunono	nonoðnono	nonbwnono
nonxlnono		nonpdonon	nongwnono

nonoynono
nonpyonon
nonbynono
nongynono
nonoznono
nonpzonon
nonbznono
nongznono
nonoxnono
nonpxonon
nonbxnono
nongxnono
nongxnono

(kvwyzx)R L (ceodqgđ)
nonkonono
nonvonono
nonwoonon
nonyoonon
nonkđnono
nonvđnono
nonwđnonon
nonyđnonon
nonzđnonon
nonxđnonon
nonkdnono
nonvdnono
nonwdnonon
nonydonon
nonzdnnonon
nonxdnonon

nonkgnono
nonvgnono
nonwgonon
nonygonon
nonzgnnonon
nonxgnnonon
nonkenono
nonvenono
nonweonon
nonyeonon
nonzenonon
nonxenonon

full>open
(bpo)R L(fts)

nonofnono
nonpfonon
nonbfnono
nonotnono
nonptnonon
nonbbtnono
nonosnono
nonpsonon
nonbsnono
nonoanonon
nonpaonon
nonbanono

(ctfre) R L (ceodqgđ)
noncononon
noncdnonon

noncgnnonon
noncđnonon
nontononon
nontdnnonon
nontgnnonon
nontđnonon
nonfononon
nonfdnonon
nonfgnonon
nonfđnonon
nonrononon
nonrdsnnonon
nonrgnnonon
nonrđnonon
noneononon
nonednonon
nonegnnonon
noneđnonon

small>small
(s)R L(as)
nonsanonon
nonssnonon

small>void
(s)R L(vwyzx)
nonsvnonon
nonswnnonon
nonsynnonon
nonsznnonon
nonsxnnonon

(kvwyzx)R L(as)
nonkanonon
nonksnonon
nonvanonon
nonvsnnonon
nonwanonon
nonwsnonon
nonyanonon
nonysnonon
nonzanonon
nonzsnnonon
nonxanonon
nonxsnnonon

small>open
(s)R L(fts)
nonsfnnonon
nonstnonon
nonssnonon

(ctfre) R L(as)
noncanonon
noncsnonon
nontanonon
nontsnnonon
nonfanonon
nonfsnonon
nonranonon
nonrsnonon
noneanonon
nonesnonon

void>void			
(kvwyzx)R L(vwyzx)			
nonkvnnonon	void>open	nontynonon	nonrsnonon
nonkwnnonon	(kvwyzx)R L(fts)	nontznnonon	nonefnnonon
nonkynnonon	nonkfnnonon	nontxnnonon	nonetnonon
nonkznnonon	nonktnnonon	nonfvnonon	nonesnonon
nonkxnnonon	nonksnonon	nonfwnnonon	
nonvvnonon	nonvfnnonon	nonfynnonon	
nonvwnnonon	nonvtnonon	nonfznnonon	UPPERCASE
nonvynnonon	nonvsnonon	nonfxnnonon	
nonvznnonon	nonwfnnonon	nonrvnonon	straight>straight
nonvxnonon	nonwtnonon	nonrwnnonon	(HMNUIJ)R
nonwvnnonon	nonwsnonon	nonrynonon	L(HMNUIKLPRBEFÐ)
nonwwnonon	nonyfnnonon	nonrznnonon	HOHHHHOH
nonwynnonon	nonytnnonon	nonrxnonon	HOHHMHOH
nonwznnonon	nonysnonon	nonevnnonon	HOHHNHOH
nonwxnonon	nonzfnnonon	nonewnnonon	HOHHUHOH
nonyvnnonon	nonztnonon	noneynnonon	HOHHIHOH
nonywnnonon	nonzsnnonon	noneznnonon	HOHHKHOH
nonyynnonon	nonxfnnonon	nonexnonon	HOHHLHOH
nonyznnonon	nonxtnonon		HOHHÐHOH
nonyxnnonon	nonxsnonon	open>open	
nonzvnonon		(ctfre) R L(fts)	HOHMHHOH
nonzwnnonon	(ctfre) R L(vwyzx)	noncfnonon	HOHMMHOH
nonzynnonon	noncvnonon	nonctnonon	HOHMNHOH
nonzznonon	noncwnnonon	noncsnonon	HOHMUHOH
nonzxnonon	noncynnonon	nontfnnonon	HOHMIHOH
nonxvnnonon	noncznonon	nonttnnonon	HOHMKHOH
nonxwnnonon	noncxnonon	nontsnnonon	HOHMLHOH
nonxynnonon	nontvnnonon	nonffnnonon	HOHMÐHOH
nonxznonon	nontwnnonon	nonftnonon	
nonxxnonon		nonfsnonon	HOHNHHOH
		nonrfnnonon	HOHNMHOH
		nonrtnnonon	HOHNNNHOH

HOHNÜHOH		L(HMNUIKLPŔBEFĐ)	HOHHAHOH
HOHNIHOH	straight>full round	HOHRHHOH	HOHNAHOH
HOHNKHOH	(HMNUIJ)R L (CGOQ)	HOHRNHOH	HOHUAHOH
HOHNLHOH	HOHHOHOH	HOHRUHOH	
HOHNÐHOH	HOHNOHOH	HOHRÐHOH	
	HOHUOHOH	HOHBHHOH	(WVYZXAKR)R
HOHUHHOH	HOHHCHOH	HOHBNHOH	L(HMNUIKLPŔEF)
HOHUMHOH	HOHNCHOH	HOHBUHOH	HOHWUHOH
HOHUNHOH	HOHUCHOH	HOHBÐHOH	HOHWHHOH
HOHUUHOH		HOHPHHOH	HOHVUHOH
HOHUIHOH	(DOQŔ)R	HOHPNHOH	HOHVHHOH
HOHUKHOH	L(HMNUIKLPŔBEFĐ)	HOHPUHOH	HOHYUHOH
HOHULHOH	HOHOUHOH	HOHPÐHOH	HOHYHHOH
HOHUÐHOH	HOHQUHOH		HOHZUHOH
	HOHDUHOH		HOHZHHOH
HOHIHHOH	HOHŔUHOH	straight>void	HOHXUHOH
HOHIMHOH	HOHOHHOH	(HMNUIJ)R L(WVYZXA)	HOHXHHOH
HOHINHOH	HOHQHHOH	HOHHVHOH	HOHAUHOH
HOHIUHOH	HOHDHHOH	HOHNVHOH	HOHAHHOH
HOHIIHOH	HOHŔHHOH	HOHUVHOH	HOHKUHOH
HOHIKHOH	HOHOÐHOH	HOHHWHOH	HOHKHHOH
HOHILHOH	HOHQÐHOH	HOHNWHOH	HOHRUHOH
HOHIÐHOH	HOHDÐHOH	HOHUWHOH	HOHRHHOH
	HOHŔÐHOH	HOHHYHOH	
HOHJHHOH		HOHNYHOH	straight>open
HOHJMH OH	straight>small round	HOHUYHOH	(HMNUIJ)R L(TJS)
HOHJNHOH	(HMNUIJ)R L(S)	HOHHZHOH	OHOHTHOH
HOHJUHOH	OHOHSHOH	HOHNZHOH	OHOHTHOH
HOHJIHOH	OHONSHOH	HOHUZHOH	OHOUTHOH
HOHJKHOH	OHOUSHOH	HOHHXHOH	OHOHJHOH
HOHJLHOH		HOHNXHOH	OHO NJHOH
HOHJÐHOH	(ŔBŔ)R	HOHUXHOH	OHO UJHOH

OHOHSHOH	full round >full round	HOHOVHOH	HOHDTHOH
OHONSHOH	(DOQǾ)R L(CGOQ)	HOHQVHOH	HOHǾTHOH
OHOUSHOH	HOHǾOHOH	HOHDYHOH	HOHOTHOH
	HOHDOHOH	HOHǾYHOH	HOHQTHOH
(CGSEFLTZ)R	HOHDCHOH	HOHOYHOH	HOHDJHOH
L(HMNUIKLPRBEǾ)	HOHDQHOH	HOHQYHOH	HOHǾJHOH
HOHCUHOH	HOHQOHOH	HOHǾZHOH	HOHOJHOH
HOHCHHOH	HOHQCHOH	HOHDZHOH	HOHQJHOH
HOHCǾHOH	HOHQQHOH	HOHOZHOH	HOHDSHOH
HOHGUHOH		HOHQZHOH	HOHǾSHOH
HOHGHHOH	full > small	HOHǾXHOH	HOHOSHOH
HOHGǾHOH	(DOQǾ)R L(S)	HOHDXHOH	HOHQSHOH
HOHSUHOH		HOHOXHOH	HOHDZHOH
HOHSHHOH	HOHǾSHOH	HOHQXHOH	HOHǾZHOH
HOHSǾHOH	HOHDSHOH	HOHǾAHOH	HOHOZHOH
HOHEUHOH	HOHOSHOH	HOHDAHOH	HOHQZHOH
HOHEHHOH	HOHQSHOH	HOHOAHOH	
HOHEǾHOH		HOHQAHOH	(CSEFLTZG)R L(CGOQ)
HOHFUHOH	(RBP)R L(CGOQ)		HOHCOHOH
HOHFFHHOH	HOHROHOH	(WVYZXAKR)R L(CGOQ)	HOHSOHOH
HOHFǾHOH	HOHBHOHOH	HOHWOHOH	HOHEOHOH
HOHLUHOH	HOHPOHOH	HOHVOHOH	HOHFOHOH
HOHLHHOH		HOHYOHOH	HOHLOHOH
HOHLǾHOH	full > void	HOHZOHOH	HOHTOHOH
HOHTUHOH	(DOQǾ)R L(WVYZXA)	HOHXOHOH	HOHZOHOH
HOHTHHOH		HOHAOHOH	HOHGOHOH
HOHTǾHOH	HOHDWHOH	HOHKOHOH	
HOHZUHOH	HOHǾWHOH	HOHROHOH	
HOHZHHOH	HOHOWHOH		small>small
HOHZǾHOH	HOHQWHOH		(RBP)R L(S)
	HOHǾVHOH	full>open	HOHRSHOH
	HOHDVHOH	(DOQ)R L(TJSZ)	HOHBSHOH

HOHPSHOH

small>void
(RBP)R L(WVYZXA)

HOHRWHOHOH
HOHRVHOHOH
HOHRYHOHOH
HOHRZHOHOH
HOHRXHOHOH
HOHRAHOHOH
HOHRÆHOHOH

HOHBWHOHOH
HOHBVHOHOH
HOHBYHOHOH
HOHBZHOHOH
HOHBXHOHOH
HOHBAHOHOH
HOHBÆHOHOH

HOHPWHOHOH
HOHPVHOHOH
HOHPYHOHOH
HOHPZHOHOH
HOHPXHOHOH
HOHPAHOHOH
HOHPÆHOHOH

(WVYZXAKR)R L(S)

HOHWSHOH
HOHVSHOH
HOHYSHOH
HOHZSHOH
HOHXSHOH
HOHASHOH
HOHKSHOH
HOHRSHOH

small>open
(RBP)R L(TJSZ)

HOHRTHOH
HOHRTHOH
HOHRTHOH
HOHRJHOHOH
HOHRJHOHOH
HOHRJHOHOH
HOHRSHOH
HOHRSHOH
HOHRSHOH
HOHRZHOHOH
HOHRZHOHOH
HOHRZHOHOH

HOHBTHOH
HOHBTHOH
HOHBTHOH
HOHBJHOHOH

HOHBJHOHOH
HOHBJHOHOH
HOHBSHOHOH
HOHBSHOHOH
HOHBSHOHOH
HOHBZHOHOH
HOHBZHOHOH
HOHBZHOHOH

HOHPTHOH
HOHPTHOH
HOHPTHOH
HOHPJHOHOH
HOHPJHOHOH
HOHPJHOHOH
HOHPSHOH
HOHPSHOH
HOHPSHOH
HOHPZHOHOH
HOHPZHOHOH
HOHPZHOHOH

(CGSEFLTZ)R L(TJSZ)

HOHCSHOH
HOHGSHOH
HOHSSHOH
HOHESHOH
HOHFSHOH
HOHLSHOH
HOHTSHOH
HOHZSHOH

HOHCTHOHOH
HOHGTHOH
HOHSTHOHOH
HOHETHOH
HOHFTHOHOH
HOHLTHOH
HOHTTHOH
HOHZTHOH

HOHCJHOHOH
HOHGJHOHOH
HOHSJHOHOH
HOHEJHOHOH
HOHFJHOHOH
HOHLJHOHOH
HOHTJHOHOH
HOHZJHOHOH

HOHCZHOHOH
HOHGZHOHOH
HOHSZHOHOH
HOHEZHOHOH
HOHFZHOHOH
HOHLZHOHOH
HOHTZHOHOH
HOHZZHOHOH

HOHZWHOH HZWZH	HOHTTHOH	nonHjnono	nonFpnono
HOHZYHOH HZYZH	HOHTJHOH	nonNjnono	nonDunono
HOHZVHOH HZVZH	HOHTSHOH	nonUjnono	nonDbnono
HOHZZHOH HZZZH	HOHTZHOH	nonHpnono	nonDjnono
HOHZXHOH HZXZH	HOHZTHOH	nonNpnono	nonDnnono
HOHZAHOH HZAZH	HOHZJHOH	nonUpnono	nonDpnono
	HOHZSHOH	nonHhnono	nonOunono
	HOHZZHOH	nonNhnono	nonObnono
		nonUhnono	nonOjnono
open>open	UPPERCASE >		nonOnnono
(CSEFLTZ)R L(TJZ)	Lowercase	straight>full round	nonOpnono
		(HMINUJ)R L (ceodqgđ)	nonQunono
HOHCTHOH	straight>straight		nonQbnono
HOHCJHOH		nonHonono	nonQjnono
HOHCSHOH	(HMINUJ)R	nonNonono	nonQnnono
HOHCZHOH	L(ublijphmnr)	nonUonono	nonQpnono
HOHSTHOH		nonHdnono	
HOHSJHOH	nonHnnono	nonNdnono	
HOHSSHOH	nonNnnono	nonUdnono	straight>small round
HOHSZHOH	nonUnnono	nonHgnono	(HMNUIJ)R L(as)
HOHETHOH	nonHunono	nonNgnono	nonHanono
HOHEJHOH	nonNunono	nonUgnono	nonNanono
HOHESHOH	nonUunono	nonHđnono	nonUanono
HOHEZHOH	nonHbnono	nonNđnono	nonHsnono
HOHFTHOH	nonNbnono	nonUđnono	nonNsnono
HOHFJHOH	nonUbnono		nonUsnono
HOHFSHOH	nonHjnono	(DOQ)R L(ublijphmnr)	
HOHFZHOH	nonNjnono		(RBPG)R L(ublijphmnr)
HOHLTHOH	nonUjnono	nonFunono	
HOHLJHOH	nonHinono	nonFbnono	nonRunono
HOHLSHOH	nonNinono	nonFjnono	nonRbnono
HOHLZHOH	nonUinono	nonFnnono	nonRjnono

nonRnnono	nonNynono	nonZjnono	nonNfnono
nonRpnono	nonUynono	nonZnnono	nonUfnono
	nonHznono	nonZpnono	
nonBunono	nonNznono		nonHtnono
nonBbnono	nonUznono	nonXunono	nonNtnono
nonBjnono	nonHxnono	nonXbnono	nonUtnono
nonBnnono	nonNxnono	nonXjnono	
nonBpnono	nonUxnono	nonXnnono	nonHsnono
		nonXpnono	nonNsnono
nonPunono	(WVYZXAKR)R		nonUsnono
nonPbnono	L(ublijphmnr)	nonAunono	
nonPjnono		nonAbnono	(CSEFLTZ)R
nonPnnono	nonWunono	nonAjnono	L(ublijphmnr)
nonPpnono	nonWbnono	nonAnnono	
	nonWjnono	nonAprono	nonCunono
nonGunono	nonWnnono		nonCbnono
nonGbnono	nonWpnono	nonKunono	nonCjnono
nonGjnono		nonKbnono	nonCnnono
nonGnnono	nonVunono	nonKjnono	nonCpnono
nonGpnono	nonVbnono	nonKnnono	
	nonVjnono	nonKpnono	nonSunono
	nonVnnono		nonSbnono
straight>void	nonVpnono	nonRunono	nonSjnono
(HMNUIJ)R L(vwyzx)		nonRbnono	nonSnnono
	nonYunono	nonRjnono	nonSpnono
nonHvnono	nonYbnono	nonRnnono	
nonNvnono	nonYjnono	nonRpnono	nonEunono
nonUvnono	nonYnnono		nonEbnono
nonHwnono	nonYpnono	straight>open	nonEjnono
nonNwnono		(HMNUIJ)R L(fts)	nonEnnono
nonUwnono	nonZunono		nonEpnono
nonHynono	nonZbnono	nonHfnono	

nonFunono		nonRonono	nonOynono
nonFbnono	nonDonono	nonRdnono	nonOznono
nonFjnono	nonDdnono	nonRgnono	nonOxnono
nonFnnono	nonDgnono	nonRðnono	
nonFpnono	nonDðnono		nonQvnono
	nonFonono	nonBonono	nonQwnono
nonLunono	nonFdnono	nonBdnono	nonQynono
nonLbnono	nonFgnono	nonBgnono	nonQznono
nonLjnono	nonFðnono	nonBðnono	nonQxnono
nonLnnono	nonOonono		
nonLpnono	nonOdnono	nonPonono	(WVYZXAKR)R L
	nonOgnono	nonPdnono	(ceodqgð)
nonTunono	nonOðnono	nonPgnono	
nonTbnono	nonQonono	nonPðnono	nonWonono
nonTjnono	nonQdnono		nonWdnono
nonTnnono	nonQgnono	full > void	nonWgnono
nonTpnono	nonQðnono	(DOQ)R L(vwyzx)	nonWðnono
nonZunono	full > small	nonDvnono	nonVonono
nonZbnono	(DOQ)R L(as)	nonDwnono	nonVdnono
nonZjnono		nonDynono	nonVgnono
nonZnnono	nonDanono	nonDznono	nonVðnono
nonZpnono	nonDsnono	nonDxnono	
	nonFanono		nonYonono
nonZhnono	nonFsnono	nonFvnono	nonYdnono
nonZhnono	nonOanono	nonFwnono	nonYgnono
nonZhnono	nonOsnono	nonFynono	nonYðnono
nonZhnono	nonQanono	nonFznono	
nonZhnono	nonQsnono	nonFxnono	nonZonono
			nonZdnono
full round >full round	(RBP)R L (ceodqg)	nonOvnono	nonZgnono
(DOQ)R L (ceodqgð)		nonOwnono	nonZðnono

nonZonono	nonOfnonono	nonLonono	nonRwnono	nonZanono	
nonZdnono	nonOtnono	nonLdnono	nonRynono	nonZsnono	nonCsnono
nonZgnono	nonOsnono	nonLgnono	nonRznono	nonXanono	nonCanono
nonZðnonono		nonLðnonono	nonRxnono	nonXsnono	nonSsnono
	nonQfnono	nonTonono	nonBvnono	nonAanono	nonSanono
nonXonono	nonQtnono	nonTdnono	nonBwnono	nonAsnonono	nonEsnono
nonXdnonono	nonQsnono	nonTgnono	nonBynono	nonKanono	nonEanono
nonXgnono		nonTðnonono	nonBznono	nonKsnono	nonFsnono
nonXðnonono	(CSEFLTZ)R L		nonBxnono	nonRanono	nonFanono
	(ceodqğð)	nonZonono		nonRsnono	nonLsnono
nonAonono		nonZdnono	nonPvnono	small>open	nonLanono
nonAdnonono	nonConono	nonZgnono	nonPwnono	(RBPG)R L(fts)	nonTsnono
nonAgnono	nonCdnono	nonZðnonono	nonPynono		nonTanono
nonAðnonono	nonCgnono		nonPznono	nonRfnono	nonZsnono
	nonCðnonono	small>small	nonPxnonono	nonRtnono	nonZanono
nonKonono		(RBPG)R L(as)		nonRsnono	void>void
nonKdnono	nonSonono		nonGvnono		(WVYZXAKR)R
nonKgnono	nonSdnono	nonRanono	nonGwnono	nonBfnono	L(vwyzx)
nonKðnonono	nonSgnono	nonRsnono	nonGynono	nonBtnono	
	nonSðnonono	nonBanono	nonGznono	nonBsnono	nonWvnono
nonRonono		nonBsnono	nonGxnono		nonWwnono
nonRdnono	nonEonono	nonPanono		nonPfnono	nonWynono
nonRgnono	nonEdnonono	nonPsnono	(WVYZXAKR)R	nonPtnono	nonWznono
nonRðnonono	nonEgnono	nonGanono	L(as)	nonPsnono	nonWxnono
	nonEðnonono	nonGsnono			
full>open			nonWanono	nonGfnono	nonVvnono
(DOQ)R L(fts)	nonFonono		nonWsnono	nonGtnono	nonVwnono
	nonFdnonono	small>void	nonVanono	nonGsnono	nonVynono
nonDfnono	nonFgnono	(RBPG)R	nonVsnono		nonVznono
nonDtnono	nonFðnonono	L(vwyzx)	nonYanono	(CSEFLTZ)R	nonVxnono
nonDsnono		nonRvnono	nonYsnono	L(as)	

nonYvnono
nonYwnono
nonYynono
nonYznono
nonYxnono

nonZvnono
nonZwnono
nonZynono
nonZznono
nonZxnono

nonXvnono
nonXwnono
nonXynono
nonXznono
nonXxnono

nonAvnono
nonAwnono
nonAynono
nonAznono
nonAxnono

nonKvnono
nonKwnono
nonKynono
nonKznono
nonKxnono

nonRvnono
nonRwnono

nonRynono
nonRznono
nonRxnono

void>open
(WVYZXAKR)R L(fts)

nonWfnono
nonWtnono
nonWsnono
nonVfnono
nonVtnono
nonVsnono
nonYfnono
nonYtnono
nonYsnono
nonZfnono
nonZtnono
nonZsnono
nonXfnono
nonXtnono
nonXsnono
nonAfnono
nonAtnono
nonAsnono
nonKfnono
nonKtnono
nonKsnono
nonRfnono
nonRtnono
nonRsnono

(CSEFLTZ)R L(vwyzx)

nonCvnono
nonCwnono
nonCynono
nonCznono
nonCxnono

nonSvnono
nonSwnono
nonSynono
nonSznono
nonSxnono

nonEvnono
nonEwnono
nonEynono
nonEznono
nonExnono

nonFvnono
nonFwnono
nonFynono
nonFznono
nonFxnono

nonLvnono
nonLwnono
nonLynono
nonLznono
nonLxnono

nonTvnono
nonTwnono
nonTynono
nonTznono
nonTxnono

nonZvnono
nonZwnono
nonZynono
nonZznono
nonZxnono

open>open
(CSEFLTZ)R L(fts)

nonCfnono
nonCtnono
nonCsnono
nonSfnono
nonStnono
nonSsnono
nonEfnono
nonEtnono
nonEsnono
nonFfnono
nonFtnono
nonF'snono
nonLfnono
nonLtnono
nonLsnono
nonTfnono
nonTtnono

nonTsnono	nonbÐnono	noniVnono	
nonZfnono	nonðÐnono	nonjVnono	(kvwyzx)R
nonZtnono		nonuVnono	L(HMNUIKLPRBEFÐ)
nonZsnono	straight>small round (udlijgqhmna)R L(S)	nonaVnono	
		nonnYnono	nonkHnono
Lowercase > UPPERCASE	nonnSnono	nonqYnono	nonkUnono
	nonqSnono	noniYnono	nonkÐnono
	noniSnono	nonjYnono	nonvHnono
straight>full round (udlijgqhmna)R L (CGOQ)	nonjSnono	nonuYnono	nonvUnono
	nonuSnono	nonaYnono	nonvÐnono
	nonaSnono		nonwHnono
nonnOnono		nonnZnono	nonwUnono
nonqOnono	(s)R	nonqZnono	nonwÐnono
noniOnono	L(HMNUIKLPRBEF')	noniZnono	nonyHnono
nonjOnono		nonjZnono	nonyUnono
nonuOnono	nonsHnono	nonuZnono	nonyÐnono
nonaOnono	nonsUnono	nonaZnono	nonzHnono
			nonzUnono
			nonzÐnono
(bpo)R	straight>void	nonnXnono	nonxHnono
L(HMNUIKLPRBEFÐ)	(udlijgqhmna)R L(WVYZXA)	nonqXnono	nonxUnono
		noniXnono	nonxÐnono
nonoHnono		nonjXnono	
nonpHnono	nonnWnono	nonuXnono	straight>open (udlijgqhmna)R L(TJS)
nonbHnono	nonqWnono	nonaXnono	
nonðHnono	noniWnono		
nonoUnono	nonjWnono	nonnAnono	nonnTnono
nonpUnono	nonuWnono	nonqAnono	nonqTnono
nonbUnono	nonaWnono	noniAnono	noniTnono
nonðUnono		nonjAnono	nonjTnono
nonoÐnono	nonnVnono	nonuAnono	nonuTnono
nonpÐnono	nonqVnono	nonaAnono	nonaTnono

nonnJnono	nonoOonono	nonoZnono	noncOonono
nonqJnono	nonpOonono	nonpZnono	nonfOonono
noniJnono	nonbOonono	nonbZnono	nontOonono
nonjJnono	full > small	nonðZnono	nonrOonono
nonuJnono	(bpo)R L(S)	nonoXnono	
nonaJnono		nonpXnono	small>small
		nonbXnono	(s)R L(S)
nonnSnono	nonoSnono	nonðXnono	
nonqSnono	nonpSnono	nonoĂnono	nonsSnono
noniSnono	nonbSnono	nonpĂnono	
nonjSnono	(as) R L(CGOQ)	nonbĂnono	small>void
nonuSnono		nonðĂnono	(s)R L(WVYZXA)
nonaSnono	nonaOonono	full>open	
	nonsOonono	(bpoð)R L(TJS)	nonsWnono
(ctfr) R			nonsVnono
L(HMNUIKLPRBEF)	full > void	nonoTnono	nonsYnono
	(bpoð)R L(WVYZXA)	nonpTnono	nonsZnono
noncHnono	(kvwyzx)R L(CGOQ)	nonbTnono	nonsXnono
noncUnono		nonðTnono	nonsĂnono
nonfHnono	nonoWnono		
nonfUnono	nonpWnono	nonoJnono	(kvwyzx)R L(S)
nontHnono	nonbWnono	nonpJnono	
nontUnono	nonðWnono	nonbJnono	nonkSnono
nonrHnono	nonoVnono	nonðJnono	nonvSnono
nonrUnono	nonpVnono		nonwSnono
	nonbVnono	nonoSnono	nonySnono
	nonðVnono	nonpSnono	nonzSnono
	nonoYnono	nonbSnono	nonxSnono
full round >full round	nonpYnono	nonðSnono	
(bpoe)R L(CGOQ)	nonbYnono		small>open
	nonðYnono	(ctfr) R L(CGOQ)	(s)R L(TJS)

	nonyYnono	nonzTnono	nonrYnono
nonsTsnono	nonzYnono	nonxTnono	
nonsJnono	nonxYnono		noncZnono
nonsSsnono		nonkJnono	nontZnono
	nonkZnono	nonvJnono	nonfZnono
(ctfr) R L(S)	nonvZnono	nonwJnono	nonrZnono
	nonwZnono	nonyJnono	
noncSnono	nonyZnono	nonzJnono	noncXnono
nontSnono	nonzZnono	nonxJnono	nontXnono
nonfSnono	nonxZnono		nonfXnono
nonrSnono		nonkSnono	nonrXnono
	nonkXnono	nonvSnono	
void>void	nonvXnono	nonwSnono	noncAnono
(kvwyzx)R L(WVYZXA)	nonwXnono	nonySnono	nontAnono
	nonyXnono	nonzSnono	nonfAnono
nonkWnono	nonzXnono	nonxSnono	nonrAnono
nonvWnono	nonxXnono		
nonwWnono		(ctfr) R L(WVYZXA)	
nonyWnono	nonkAnono	noncWnono	open>open
nonzWnono	nonvAnono	nontWnono	(ctfr) R L(TJS)
nonxWnono	nonwAnono	nonfWnono	
	nonyAnono	nonrWnono	noncTnono
nonkVnono	nonzAnono		nontTnono
nonvVnono	nonxAnono	noncVnono	nonfTnono
nonwVnono		nontVnono	nonrTnono
nonyVnono	void>open	nonfVnono	
nonzVnono	(kvwyzx)R L(TJS)	nonrVnono	noncJnono
nonxVnono			nontJnono
	nonkTnono		nonfJnono
nonkYnono	nonvTnono	noncYnono	nonrJnon
nonvYnono	nonwTnono	nontYnono	
nonwYnono	nonyTnono	nonfYnono	noncSnono

nontSnono	straight>small round	∘∘71∘∘	∘∘∘∘∘∘
nonfSnono	(1) R L(98)	∘∘21∘∘	∘∘∘6∘∘
nonrSnono			∘∘9∘∘∘
	∘∘19∘∘	straight>open	∘∘96∘∘
	∘∘18∘∘	(1) R L(239)	
Figures			full round >small
	111911	111211	round
straight > straight	111811	111311	(∘9) R L(98)
∘∘11∘∘		111911	
111111	(8356) R L (1)		11∘911
HH11HH		∘∘12∘∘	11∘811
nn11nn	∘∘81∘∘	∘∘13∘∘	119911
	∘∘31∘∘	∘∘19∘∘	119811
straight>full round	∘∘51∘∘		
(1) R L (∘6)	∘∘61∘∘	(654)R L(1)	∘∘∘9∘∘
			∘∘∘8∘∘
∘∘1∘∘∘	118111	116111	∘∘99∘∘
∘∘16∘∘	113111	115111	∘∘98∘∘
	115111	114111	
111∘11	116111		L(98) L (∘6)
111611		∘∘61∘∘	
	straight>void	∘∘51∘∘	119∘11
	(1) R L(4)	∘∘41∘∘	119611
(∘9) R L (1)			118∘11
	111411	full round >full round	118611
∘∘91∘∘	∘∘14∘∘	(∘9) R L (∘6)	
∘∘∘1∘∘			∘∘9∘∘∘
	(72)R L (1)	11∘∘11	∘∘96∘∘
119111		11∘611	∘∘8∘∘∘
11∘111	117111	119∘11	∘∘86∘∘
	112111	119611	
			full > void

(09) R L(4)	000300	116811	
	000900		007900
110411	009200	008900	002900
119411	009300	008800	007800
	009900	003900	002800
000400		003800	
009400	(654)R L (06)	005900	small > open
		005800	(8356) R L(239)
	116011	006900	
(72)R L (06)	116611	006800	118211
	115011		118311
117011	115611		118911
117611	114011	small > void	
112011	114611	(8356) R L(4)	113211
112611			113311
	006000	118411	113911
007000	006600	113411	
007600	005000	115411	115211
002000	005600	116411	115311
002600	004000		115911
	004600	008400	
full > open		003400	116211
(09) R L(239)	small > small	005400	116311
	(8356) R L(98)	006400	116911
110211			
110311	118911		008200
110911	118811	(72)R L(98)	008300
119211	113911		008900
119311	113811	117911	
119911	115911	112911	003200
	115811	117811	003300
000200	116911	112811	003900

			fh, fk, fl, fb, fi, fj, ff, ft
005200	007400	open > open	
005300	002400	(654)R L(239)	L4 F'7 6T T7
005900			
	void > open	116211	
006200	(72)R L(239)	116311	
006300		116911	
006900		115211	
	117211	115311	
	117311	115911	
	117911	114211	
	112211	114311	
(654)R L(98)	112311	114911	
	112911		
116911			
116811	007200	006200	
115911	007300	006300	
115811	007900	006900	
114911	002200	005200	
114811	002300	005300	
	002900	005900	
006900		004200	
006800		004300	
005900		004900	
005800	(654)R L(4)		
004900			
004800	116411	collisions U>L & L>U	
	115411		
void > void	114411	fT fY	
(72)R L(4)		Qj Qy Qp Qj F'l tA gT gV	
	006400	gX	
117411	005400		
112411	004400	jj, jy, qj, qg, gg, gp, gy,	

