

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
nonznono
nonxnono

(kvwyzxr)R
L(ublijphmnr)
nonrunono
nonrlnono
nonrjnono
nonrpnono
nonrbnono

nonknono
nonklnono
nonkjonono
nonkpnono
nonkbnono

nonvunono
nonvlnono
nonvjnono
nonvpnono
nonvbnono

nonzunono
nonzlnono
nonzjnono
nonzpnono
nonzbnono

nonxunono
nonxlnono

nonxjnono
nonxpnono
nonxbnono

straight>open
(udlijgqhmna)R L(afts)
nonufnono
nonuanono
nonutnono
nonusnono
nonqfnono
nonqanono
nonqtnono
nonqsnono
nonjfnono
nonjanono
nonjtnono
nonjsnono
nonnfnon
nonnanon
nonntnon
nonnsnon

(ctfre) R L(ublijphmnr)

noncunono
noncbnono
noncnonon
noncjnonon
nonclonon
noncpnonon
nontunono

nontbnono
nontnonon
nontjnonon
nontlonon
nontpnonon
nonfunono
nonfbnono
nonfnonon
nonfjnonon
nonflonon
nonfpnonon
nonrunono
nonrbnono
nonrnnonon
nonrjnonon
nonrlonon
nonrpnonon
noneunono
nonebnono
nonenonon
nonejnonon
nonelonon
nonepnonon

full round >full round
(bpo)R L (ceodqgð)

nonocnono
nonoenono
nonognono
nonoðnono
nonpdonon

nonooonon

full > small
(bpo)R L(as)
nonoanono
nonpaonon
nonosnono
nonpsonon

(as) R L (ceodqgð)

nonaonono
nonaenono
nonagnono
nonadnono
nonaðnono
nonsonono
nonsenono
nonsgnono
nonsdnono
nonsðnono

full > void
(bpog)R L(vwyzx)
nonovnono
nonpvnnon
nonbvnnono
nongvnnono
nonownono
nonpwonon
nonbwnono
nongwnono

nonoynono	nonkgnono	noncgnonon	(kvwyzx)R L(as)
nonpynonon	nonvgnono	noncðnonon	nonkanonon
nonbynono	nonwgonon	nontononon	nonksnonon
nongynono	nonygonon	nontðnonon	nonvanonon
nonoznono	nonzgnonon	nontgnonon	nonvsnonon
nonpzonon	nonxgnonon	nontðnonon	nonwanonon
nonbznono	nonkenono	nonfononon	nonwsnonon
nongznono	nonvenono	nonfdnonon	nonyanonon
nonoxnono	nonweonon	nonfgnonon	nonysnonon
nonpxnonon	nonyeonon	nonfðnonon	nonzanonon
nonbxnono	nonzenonon	nonrononon	nonzsnonon
nongxnono	nonxenonon	nonrdnonon	nonxanonon
nongxnono		nonrgnonon	nonxsnonon
	full>open	nonrðnonon	
	(bpo)R L(fts)	noneononon	small>open
(kvwyzx)R L (ceodqgð)		nonednonon	(s)R L(fts)
nonkonono	nonofnono	nonegnonon	nonsfnonon
nonvonono	nonpfonon	noneðnonon	nonstnonon
nonwoonon	nonbfnono		nonssnonon
nonyoonon	nonotnono	small>small	
nonkðnono	nonptnonon	(s)R L(as)	(ctfre) R L(as)
nonvðnono	nonbthnono	nonsanonon	noncanonon
nonwðnonon	nonosnono	nonssnonon	noncsnonon
nonyðnonon	nonpsonon		nontanonon
nonzðnonon	nonbsnono	small>void	nontsnonon
nonxðnonon	nonoanonon	(s)R L(vwyzx)	nonfanonon
nonkðnono	nonpaonon	nonsvnonon	nonfsnonon
nonvðnono	nonbanono	nonswnonon	nonranonon
nonwdnonon		nonsynonon	nonrsnonon
nonydonon	(ctfre) R L (ceodqgð)	nonsznnonon	noneanonon
nonzðnonon	noncononon	nonsxnnonon	nonesnnonon
nonxðnonon	noncdnonon		

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	nonvsnnonon	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	nonztnnonon	noneynnonon	HOHHIHOH
nonywnnonon	nonzsnnonon	noneznnonon	HOHHKHOH
nonyynnonon	nonxfnnonon	nonexnonon	HOHHLHOH
nonyznnonon	nonxtnonon		HOHHÐHOH
nonyxnnonon	nonxsnonon	open>open	
nonzvnonon		(ctfre) R L(fts)	HOHMHHOH
nonzwnnonon		noncfnonon	HOHMMHOH
nonzynnonon	(ctfre) R L(vwyzx)	nonctnonon	HOHMNHOH
nonzznonon	noncvnonon	noncsnonon	HOHMUHOH
nonzxnonon	noncwnnonon	nontfnnonon	HOHMIHOH
nonxvnnonon	noncynnonon	nonttnnonon	HOHMKHOH
nonxwnnonon	noncznonon	nontsnnonon	HOHMLHOH
nonxynnonon	noncxnonon	nonffnnonon	HOHMÐHOH
nonxznonon	nontvnnonon	nonftnonon	
nonxxnonon	nontwnnonon	nonfsnonon	HOHNHHOH
		nonrfnnonon	HOHNMHOH
		nonrtnnonon	HOHNNNHOH

HOHNÜHOH		L(HMNUIKLPŔBEFĐ)	HOHHAHOH
HOHNIHOH	straight>full round	HOHRHHOH	HOHNAHOH
HOHNKHOH	(HMNUIJ)Ŕ L (CGOQ)	HOHRNHOH	HOHUAHOH
HOHNLHOH	HOHHOHOH	HOHRUHOH	
HOHNÐHOH	HOHNOHOH	HOHRÐHOH	
	HOHUOHOH	HOHBHHOH	(WVYZXAKŔ)Ŕ
HOHUHHOH	HOHHCHOH	HOHBNHOH	L(HMNUIKLPŔBEF')
HOHUMHOH	HOHNCHOH	HOHBUHOH	HOHWUHOH
HOHUNHOH	HOHUCHOH	HOHBÐHOH	HOHWHHOH
HOHUUHOH		HOHPHHOH	HOHVUHOH
HOHUIHOH	(DOQŔ)Ŕ	HOHPNHOH	HOHVHHOH
HOHUKHOH	L(HMNUIKLPŔBEFĐ)	HOHPUHOH	HOHYUHOH
HOHULHOH	HOHOUHOH	HOHPÐHOH	HOHYHHOH
HOHUÐHOH	HOHQUHOH		HOHZUHOH
	HOHDUHOH		HOHZHHOH
HOHIHHOH	HOHŔUHOH	straight>void	HOHXUHOH
HOHIMHOH	HOHOHHOH	(HMNUIJ)Ŕ 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)Ŕ L(TJS)
HOHJNHOH	(HMNUIJ)Ŕ L(S)	HOHHZHOH	OHOHTHOH
HOHJUHOH	OHOHSHOH	HOHNZHOH	OHOHTHOH
HOHJIHOH	OHOHNSHOH	HOHUZHOH	OHOUTHOH
HOHJKHOH	OHOUSHOH	HOHHXHOH	OHOHJHOH
HOHJLHOH		HOHNXHOH	OHOHJHOH
HOHJÐHOH	(ŔŔ)Ŕ	HOHUXHOH	OHOUJHOH

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
HOHFHHOH	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	HOHDWHOHOH	HOHKOHOH	
HOHZUHOH	HOHǾWHOHOH	HOHROHOH	
HOHZHHOH	HOHOWHOH		small>small
HOHZǾHOH	HOHQWHOHOH		(RBP)R L(S)
	HOHǾVHOH	full>open	HOHRSHOH
	HOHDVHOH	(DOQ)R L(TJSZ)	HOHBSHOH

HOHPSHOH

small>void
(RBP)R L(WVYZXA)

HOHRWHO
HOHRVHO
HOHRYHO
HOHRZHO
HOHRXHO
HOHRAHO
HOHRAÆHO

HOHBWHO
HOHBVHO
HOHBYHO
HOHBZHO
HOHBXHO
HOHBAHO
HOHBÆHO

HOHPWHO
HOHPVHO
HOHPYHO
HOHPZHO
HOHPXHO
HOHPAHO
HOHPÆHO

(WVYZXAKR)R L(S)

HOHWSHO
HOHVSHO
HOHYSHO
HOHZSHO
HOHXSHO
HOHASHO
HOHKSHO
HOHRSHO

small>open
(RBP)R L(TJSZ)

HOHRTHO
HOHRTHO
HOHRTHO
HOHRJHO
HOHRJHO
HOHRJHO
HOHRSHO
HOHRSHO
HOHRSHO
HOHRZHO
HOHRZHO
HOHRZHO

HOHBTHO
HOHBTHO
HOHBTHO
HOHBJHO

HOHBJHO
HOHBJHO
HOHBSHO
HOHBSHO
HOHBSHO
HOHBZHO
HOHBZHO
HOHBZHO

HOHPTHO
HOHPTHO
HOHPTHO
HOHPJHO
HOHPJHO
HOHPJHO
HOHPSHO
HOHPSHO
HOHPSHO
HOHPZHO
HOHPZHO
HOHPZHO

(CGSEFLTZ)R L(TJSZ)

HOHC SHO
HOHG SHO
HOHSSH
HOHESHO
HOHF SHO
HOHL SHO
HOHT SHO
HOHZ SHO

HOHCTHO
HOHGTHO
HOHSTHO
HOHETHO
HOHFTHO
HOHLTHO
HOHTTHO
HOHZTHO

HOHCJHO
HOHGJHO
HOHSJHO
HOHEJHO
HOHFJHO
HOHLJHO
HOHTJHO
HOHZJHO

HOHCZHO
HOHGZHO
HOHSZHO
HOHEZHO
HOHFZHO
HOHLZHO
HOHTZHO
HOHZZHO

void>void (WVYZXA KR)R L(WVYZXA)	HOHZXHOH HZXZH HOHZAHOH HZAZH HOHXWHO HXWXH HOHXVHOH HXVXH HOHXYHOH HXYXH HOHXZHOH HXZXH HOHXXHOH HXXXH HOHXAHOH HXAXH HOHAWHOH HAWAH HOHAVHOH HAVAH HOHAYHOH HAYAH HOHAZHOH HAZAH HOHAXHOH HAXAH HOHAAHOH HAAAH	HOHZTHOH HOHZJHOH HOHZSHOH HOHXTHOH HOHXJHOH HOHXSHOH HOHATHOH HOHAJHOH HOHASHOH HOHKTHOH HKTXH HOHKJHOH HKJXH HOHKSHOH HKSXH HOHRTHOH HRTXH HOHRJHOH HRJXH HOHRSHOH HRSXH (CSEFLTZ)R L(WVYZXA) HOHCWHOH HOHCYHOH HOHCVHOH HOHCZHOH HOHCXHOH HOHCAHOH HOHSWHOH HSWSH HOHSYHOH HSYSH	HOHSVHOH HSVSH HOHSZHOH HSZSH HOHSXHOH HSXSH HOHSAHOH HSASH HOHEWHOH HOHEYHOH HOHEVHOH HOHEZHOH HOHEXHOH HOHEAHOH HOHFWHOH HOHFYHOH HOHfVHOH HOHF'ZHOH HOHFXHOH HOHFAHOH HOHLWHOH HOHLYHOH HOHLVHOH HOHLZHOH HOHLXHOH HOHLAHOH HOHTWHOH HTWTH HOHTYHOH HTYTH HOHTVHOH HTVTH HOHTZHOH HTZTH HOHTXHOH HTXTH HOHTAHOH HTATH
HOHWWHOH HWWWH HOHWVHOH HWVWH HOHWYHOH HWYWH HOHWZHOH HWZWH HOHWXHOH HWXWH HOHWAHOH HWAWH HOHWÆHOH HWÆWH			
HOHVWHOH HVWVH HOHVVHOH HVVVH HOHvyHOH HVyVH HOHVZHOH HVZVH HOHVXHOH HVXVH HOHVAHOH HVAVH	void>open (WVYZXAKR)R L(TJS)		
HOHYWHO HYWYH HOHYVHOH HYVYH HOHYWHO HYYYH HOHYZHOH HYZYH HOHYXHOH HYXYH HOHYAHOH HYAYH	HOHWTHOH HOHWJHOH HOHWSHOH HOHVTHOH HOHVJHOH HOHVSHOH		
HOHZWHO HZWZH HOHZVHOH HZVZH HOHZYHOH HZYZH HOHZZHOH HZZZH	HOHYTHOH HOHYJHOH HOHYSHOH		

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
nonFʹbnono	nonDonono	nonRɔnonono	nonOznono
nonFjnono	nonDɔnonono	nonRgnono	nonOxnono
nonFnnono	nonDǵnonono	nonRǵnonono	
nonFpnono	nonDǵnonono		nonQvnonono
	nonFonono	nonBonono	nonQwnono
nonLunono	nonFɔnonono	nonBɔnonono	nonQynono
nonLbnono	nonFgnono	nonBgnono	nonQznono
nonLjnono	nonFǵnonono	nonBǵnonono	nonQxnono
nonLnnono	nonOonono		
nonLpnono	nonOɔnonono	nonPonono	(WVYZXAKR)R L
	nonOgnono	nonPɔnonono	(ceodqgǵ)
nonTunono	nonOǵnonono	nonPgnono	
nonTbnono	nonQonono	nonPǵnonono	nonWonono
nonTjnono	nonQɔnonono		nonWɔnonono
nonTnnono	nonQgnono	full > void	nonWgnono
nonTpnono	nonQǵnonono	(DOQ)R L(vwyzx)	nonWǵnonono
nonZunono	full > small	nonDvnonono	nonVonono
nonZbnono	(DOQ)R L(as)	nonDwnono	nonVɔnonono
nonZjnono		nonDynono	nonVgnono
nonZnnono	nonDanono	nonDznono	nonVǵnonono
nonZpnono	nonDsnonono	nonDxnono	
	nonFʹanono		nonYonono
nonZhnono	nonFʹsnono	nonFʹvnonono	nonYɔnonono
nonZhnono	nonOanono	nonFʹwnono	nonYgnono
nonZhnono	nonOsnono	nonFʹynono	nonYǵnonono
nonZhnono	nonQanono	nonFʹznono	
nonZhnono	nonQsnono	nonFʹxnono	nonZonono
			nonZɔnonono
full round >full round	(RBP)R L (ceodqg)	nonOvnonono	nonZgnono
(DOQ)R L (ceodqgǵ)		nonOwnono	nonZǵnonono

nonZonono	nonOfnonono	nonLonono	nonRwnono	nonZanono	
nonZdnonono	nonOtnono	nonLdnonono	nonRynono	nonZsnono	nonCsnono
nonZgnono	nonOsnono	nonLgnono	nonRznono	nonXanono	nonCanono
nonZðnonono		nonLðnonono	nonRxnono	nonXsnono	nonSsnono
	nonQfnono	nonTonono	nonBvnono	nonAanono	nonSanono
nonXonono	nonQtnono	nonTdnonono	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		nonZdnonono	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
nonKdnonono	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
nonbHnono	nonqWnono	nonaXnono	(udlijgqhmna)R L(TJS)
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	nonoÃnono	nonsSnono
noniSnono	nonbSnono	nonpÃnono	
nonjSnono	(as) R L(CGOQ)	nonbÃnono	small>void
nonuSnono		nonðÃnono	(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	nonsÃnono
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)

nonsTsnono	nonyYnono	nonzTnono	nonrYnono
nonsJnono	nonzYnono	nonxTnono	
nonsSsnono	nonxYnono		noncZnono
		nonkJnono	nontZnono
(ctfr) R L(S)	nonkZnono	nonvJnono	nonfZnono
	nonvZnono	nonwJnono	nonrZnono
noncSnono	nonwZnono	nonyJnono	
nontSnono	nonyZnono	nonzJnono	noncXnono
nonfSnono	nonzZnono	nonxJnono	nontXnono
nonrSnono	nonxZnono		nonfXnono
		nonkSnono	nonrXnono
void>void	nonkXnono	nonvSnono	
(kvwyzx)R L(WVYZXA)	nonvXnono	nonwSnono	noncAnono
	nonwXnono	nonySnono	nontAnono
nonkWnono	nonyXnono	nonzSnono	nonfAnono
nonvWnono	nonzXnono	nonxSnono	nonrAnono
nonwWnono	nonxXnono		
nonyWnono		(ctfr) R L(WVYZXA)	
nonzWnono	nonkAnono	noncWnono	open>open
nonxWnono	nonvAnono	nontWnono	(ctfr) R L(TJS)
	nonwAnono	nonfWnono	
nonkVnono	nonyAnono	nonrWnono	noncTnono
nonvVnono	nonzAnono		nontTnono
nonwVnono	nonxAnono	noncVnono	nonfTnono
nonyVnono		nontVnono	nonrTnono
nonzVnono	void>open	nonfVnono	
nonxVnono	(kvwyzx)R L(TJS)	nonrVnono	noncJnono
			nontJnono
nonkYnono	nonkTnono	noncYnono	nonfJnono
nonvYnono	nonvTnono	nontYnono	nonrJnon
nonwYnono	nonwTnono	nonfYnono	
	nonyTnono		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	118911		008200
110311	118811	(72)R L(98)	008300
110911	113911		008900
119211	113811	117911	
119311	115911	112911	003200
119911	115811	117811	003300
	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,	

