

LOWERCASE

straight>straight
(udlijqhmna)R
L(ublijphmnr)

nonnnnono
nonn**u**nono
nonnbnono
nonninono
nonn**j**nono
nonnpnono
nonuunono
non**u**bnono
nonuino
nonujnono
nonupnono
nonunnono
nonqunono
non**q**bnono
nonqinono
nonqjnono
nonqpnono
nonqnnono
nonjunono
nonjbnono
nonjinono
nonjjnono
nonjpnono
nonjnnono
nonnunono
nonnbnono

nonninono
nonnjnono
nonnpnono
nonnnnono
non**a**unono
non**a**bnono
nonainono
nonajnono
nonapnono
non**a**nnono
noniunono
nonibnono
noniinono
nonijnono
nonipnono
noninnono

straight>full round
(udlijqhmna)R L
(ceodqgđ)
non**u**onono
nonugnono
nonu**đ**nono
non**q**onono
nonqgnono
nonq**đ**nono
non**j**onono
nonjgnono
nonj**đ**nono
nonionono
non**i**gnono

noni**đ**nono
nonnonono
nonngnono
nonn**đ**nono
nononono

(bpo)R L(ublijphmnr)
non**o**unono
nonobnono
nonojonon
nonoionon
nonononon

straight>small round
(udlijqhmna)R L(as)
non**u**anono
nonusnono
non**q**anono
nonqsnono
nonjanono
non**j**snono
non**a**aanono
nonasnono
nonianono
nonisnono
nonlanono
nonlsnono
nonnanono
nonn**s**nono

(s)R L(ublijphmnr)
nonsunono

non**s**bnono
non**s**nnonon
nonsjnonon
non**s**lnnonon

straight>void
(udlijqhmna)R
L(vwyzx)

nonavnono
nonaynono
non**a**znono
non**a**xnono
nonuvnono
nonuynono
non**u**znono
non**u**xnono
nonqvnono
nonqwnono
nonqynono
nonqznono
nonqxnono
nonjvnono
nonjynono
non**j**znono
non**j**xnono
nonivnono
noniynono
noniznono
nonixnono
nonvnono

nonynono
nonznono
nonxnono

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

nonknono
nonklnono
nonkjnono
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
noncnnonon
noncjnonon
nonclnonon
noncpnonon
nontunono

non**tb**nono
nontnnonon
nontjnonon
nont**l**nonon
nontpnnonon
non**f**unono
nonfbnono
non**f**nnonon
nonfjnonon
non**f**lonon
nonfpnnonon
nonrunono
nonrbnono
nonrnonon
nonrjnonon
nonrlnonon
nonrpnnonon
none**u**nono
none**b**nono
nonenonon
nonejnonon
nonelonon
nonepnnonon

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

nonocnono
nono**e**nono
nono**g**nnono
nonoðnono
non**p**dnonon

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
non**g**vnnono
nonownnono
nonpwonon
nonbwnnono
nongwnnono

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

(kvwyx)R L (ceodqgđ)
nonknono
nonvonono
nonwoonon
nonyoonon
nonkđnono
nonvđnono
nonwđnonon
nonyđnonon
nonzđnonon
nonxđnonon
nonkdnono
nonvđnono
nonwdnonon
nonydonon
nonzđnonon
nonxdnonon

nonkgnono
nonvgnono
nonwgonon
nonygonon
nonzgnonon
nonxgnonon
nonkenono
nonvenono
nonweonon
nonyeonon
nonzenonon
nonxenonon

full>open
(bpo)R L(fts)

nonofnono
nonpfonon
nonbfnono
nonotnono
nonpptonon
nonbbtnono
nonosnono
nonppsonon
nonbsnono
nonoanonon
nonpaanonon
nonbanono

(ctfre) R L (ceodqgđ)
noncononon
noncdnonon

noncgnonon
noncđnonon
nontononon
nontdnonon
nontgnonon
nontđnonon
nonfononon
nonfdnonon
nonfgnonon
nonfđnonon
nonrononon
nonrđnonon
nonrgnonon
nonrđnonon
noneononon
nonednonon
nonegnonon
noneđnonon

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

small>void
(s)R L(vwyx)
nonsvnonon
nonswnonon
nonsynonon
nonsznnonon
nonsxnnonon

(kvwyx)R L(as)
nonkanonon
nonksnonon
nonvanonon
nonvsnonon
nonwanonon
nonwsnonon
nonyanonon
nonysnonon
nonzanonon
nonzsnonon
nonxanonon
nonxsnonon

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

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

void>void
(kvwyzx)R L(vwyzx)
nonkvnnonon
nonkwnnonon
nonkynnonon
nonkznnonon
nonkxnnonon
nonvvnonon
nonvwnnonon
nonvynnonon
nonvznnonon
nonvxznnonon
nonwvnnonon
nonwwnnonon
nonwynnonon
nonwznnonon
nonwxznnonon
nonyvnnonon
nonywnnonon
nonyynnonon
nonyznnonon
nonyxnnonon
nonzvnnonon
nonzwnnonon
nonzynnonon
nonzznnonon
nonzxznnonon
nonxvnnonon
nonxwnnonon
nonxynnonon
nonxzznnonon
nonxxznnonon

void>open
(kvwyzx)R L(fts)
nonkfnnonon
nonktnnonon
nonksnnonon
nonvfnnonon
nonvtfnnonon
nonvsnnonon
nonwfnnonon
nonwtfnnonon
nonwsnnonon
nonyfnnonon
nonytnnonon
nonymsnnonon
nonzfnnonon
nonztnnonon
nonzsnnonon
nonxfnnonon
nonxtfnnonon
nonxsnnonon

(ctfre) R L(vwyzx)
noncvnnonon
noncwnnonon
noncynnonon
noncznnonon
noncxznnonon
nontvnnonon
nontwnnonon

nontynnonon
nontznnonon
nontxnnonon
nonfvnnonon
nonfwnnonon
nonfynnonon
nonfznnonon
nonfxznnonon
nonrvnnonon
nonrwnnonon
nonrynnnonon
nonrznnonon
nonrxznnonon
nonevnnonon
nonewnnonon
noneynnonon
noneznnonon
nonexznnonon

open>open
(ctfre) R L(fts)
noncfnnonon
nonctfnnonon
noncsnnonon
nontfnnonon
nonttnnonon
nontsnnonon
nonffnnonon
nonftfnnonon
nonfsnnonon
nonrfnnonon
nonrtnnonon

nonrsnnonon
nonefnnonon
nonetnnonon
nonesnnonon

UPPERCASE

straight>straight
(HMNUIJ)R
L(HMNUIKLPRBEFÐ)
HOHHHHOH
HOHHMH OH
HOHHNH OH
HOHHUH OH
HOHHIH OH
HOHHKH OH
HOHHLH OH
HOHHÐH OH

HOHMH OH
HOHMMH OH
HOHMNH OH
HOHMUH OH
HOHMIH OH
HOHMKH OH
HOHMLH OH
HOHMÐH OH

HOHNHH OH
HOHNMH OH
HOHNNH OH

HOHNÜHOH
HOHNİHOH
HOHNKHOH
HOHNLHOH
HOHNÐHOH

HOHUHHOH
HOHUMHOH
HOHUNHOH
HOHUUHOH
HOHUIHOH
HOHUKHOH
HOHULHOH
HOHUÐHOH

HOHIHHOH
HOHIMHOH
HOHINHOH
HOHIUHOH
HOHIIHOH
HOHIKHOH
HOHILHOH
HOHIÐHOH

HOHJHHOH
HOHJMH OH
HOHJNHOH
HOHJUHOH
HOHJIHOH
HOHJKHOH
HOHJLHOH
HOHJÐHOH

straight>full round
(HMNUIJ)R L (CGOQ)
HOHHOH OH
HOHN OH OH
HOHU OH OH
HOHHCH OH
HOHNCH OH
HOHUCH OH

(DOQÞ)R
L(HMNUIKLP RBEFÐ)
HOHO UHOH
HOHQ UHOH
HOHD UHOH
HOHÞ UHOH
HOHO HH OH
HOHQ HH OH
HOHD HH OH
HOHÞ HH OH
HOHO ÐHOH
HOHQ ÐHOH
HOHD ÐHOH
HOHÞ ÐHOH

straight>small round
(HMNUIJ)R L(S)
OHOHSH OH
OHONSH OH
OHOU SH OH

(RBP)R

L(HMNUIKLP RBEFÐ)
HOHRHH OH
HOHRNH OH
HOHRUHOH
HOHRÐHOH
HOHBHH OH
HOHBNHOH
HOHBUHOH
HOHBÐHOH
HOHPHH OH
HOHPNH OH
HOHPUHOH
HOHPÐHOH

straight>void
(HMNUIJ)R L(WVYZXA)
HOHHVHOH
HOHNVHOH
HOHUVHOH
HOHHWH OH
HOHNWH OH
HOHUWH OH
HOHHYHOH
HOHNYHOH
HOHUYHOH
HOHHZH OH
HOHNZH OH
HOHUZH OH
HOHHXH OH
HOHNXH OH
HOHUXHOH

HOHHAHOH
HOHNAHOH
HOHUAHOH

(WVYZXAKR)R
L(HMNUIKLP RBEF')
HOHWUHOH
HOHWHH OH
HOHVUHOH
HOHVHH OH
HOHYUHOH
HOHYHH OH
HOHZUHOH
HOHZHH OH
HOHXUHOH
HOHXHH OH
HOHAUHOH
HOHAHH OH
HOHKUHOH
HOHKHH OH
HOHRUHOH
HOHRHH OH

straight>open
(HMNUIJ)R L(TJS)
OHOHTHOH
OHONTH OH
OHOUTH OH
OHOHJHOH
OHONJHOH
OHOUJHOH

OHOHSHOH	full round >full round	HOHOVHOH	HOHDTHOH
OHONSHOH	(DOQƆ)R L(CGOQ)	HOHQVHOH	HOHƆTHOH
OHOUSHOH	HOHƆOHOH	HOHDYHOH	HOHOTHOH
	HOHDOHOH	HOHƆYHOH	HOHQTHOH
(CGSEFLTZ)R	HOHDCHOH	HOHOYHOH	HOH DJHOH
L(HMNUIKLPRBEFƆ)	HOHDQHOH	HOHQYHOH	HOHƆJHOH
HOHCUHOH	HOHQOHOH	HOHƆZHOH	HOHOJHOH
HOHCHHOH	HOHQCHOH	HOHDZHOH	HOHQJHOH
HOHCƆHOH	HOHQQHOH	HOHOZHOH	HOHDSHOH
HOHGUHOH		HOHQZHOH	HOHƆSHOH
HOHGHHOH	full > small	HOHƆXHOH	HOHOSHOH
HOHGƆHOH	(DOQƆ)R L(S)	HOHDXHOH	HOHQSHOH
HOHSUHOH		HOHOXHOH	HOHDZHOH
HOHSHHOH	HOHƆSHOH	HOHQXHOH	HOHƆZHOH
HOHSƆHOH	HOHDSHOH	HOHƆAHOH	HOHOZHOH
HOHEUHOH	HOHOSHOH	HOHDAHOH	HOHQZHOH
HOHEHHOH	HOHQSHOH	HOHOAHOH	
HOHEƆHOH		HOHQ AHOH	(CSEFLTZG)R L(CGOQ)
HOHFUHOH	(RBP)R L(CGOQ)		HOHCOHOH
HOHFHHOH	HOHROHOH	(WVYZXAKR)R L(CGOQ)	HOHSOHOH
HOHFƆHOH	HOHBHOHOH	HOHWOHOH	HOHEOHOH
HOHLUHOH	HOHPOHOH	HOHVOHOH	HOHF OHOH
HOHLHHOH		HOHYOHOH	HOHLOHOH
HOHLƆHOH	full > void	HOHZOHOH	HOHTOHOH
HOHTUHOH	(DOQƆ)R L(WVYZXA)	HOHXOHOH	HOHZOHOH
HOHTHHOH		HOHAOHOH	HOHGOHOH
HOHTƆHOH	HOHDWHOHOH	HOHKOHOH	
HOHZUHOH	HOHƆWHOHOH	HOHROHOH	
HOHZHHOH	HOHOWHOHOH		small>small
HOHZƆHOH	HOHQWHOHOH		(RBP)R L(S)
	HOHƆVHOH	full>open	HOHRSHOH
	HOHDVHOH	(DOQ)R L(TJSZ)	HOHBSHOH

HOHPSHOH

small>void
(RBP)R L(WVYZXA)

HOHRWHOH
HOHRVHOH
HOHRYHOH
HOHRZHOH
HOHRXHOH
HOHRAHOH
HOHRÆHOH

HOHBWHOH
HOHBVHOH
HOHBYHOH
HOHBZHOH
HOHBXHOH
HOHBAHOH
HOHBÆHOH

HOHPWHOH
HOHPVHOH
HOHPYHOH
HOHPZHOH
HOHPXHOH
HOHPAHOH
HOHPÆHOH

(WVYZXAKR)R L(S)

HOHWSHOH
HOHVSHOH
HOHYSHOH
HOHZSHOH
HOHXSHOH
HOHASHOH
HOHKSHOH
HOHRSHOH

small>open
(RBP)R L(TJSZ)

HOHRTHOH
HOHRTHOH
HOHRTHOH
HOHRJHOH
HOHRJHOH
HOHRJHOH
HOHRSHOH
HOHRSHOH
HOHRSHOH
HOHRZHOH
HOHRZHOH
HOHRZHOH

HOHBTHOH
HOHBTHOH
HOHBTHOH
HOHBTHOH

HOHBJHOH
HOHBJHOH
HOHBSHOH
HOHBSHOH
HOHBSHOH
HOHBZHOH
HOHBZHOH
HOHBZHOH

HOHPTHOH
HOHPTHOH
HOHPTHOH
HOHPJHOH
HOHPJHOH
HOHPJHOH
HOHPSHOH
HOHPSHOH
HOHPSHOH
HOHPZHOH
HOHPZHOH
HOHPZHOH

(CGSEFLTZ)R L(TJSZ)

HOHCSHOH
HOHGSHOH
HOHSSHOH
HOHESHOH
HOHFSHOH
HOHLSHOH
HOHTSHOH
HOHZSHOH

HOHCTHOH
HOHGTHOH
HOHSTHOH
HOHETHOH
HOHFTHOH
HOHLTHOH
HOHTTHOH
HOHZTHOH

HOHCJHOH
HOHGJHOH
HOHSJHOH
HOHEJHOH
HOHFJHOH
HOHLJHOH
HOHTJHOH
HOHZJHOH

HOHCZHOH
HOHGZHOH
HOHSZHOH
HOHEZHOH
HOHFZHOH
HOHLZHOH
HOHTZHOH
HOHZZHOH

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

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	
HOHSSH OH	nonNnnono	nonUdnono	straight>small round
HOHSZHOH	nonUnnono	nonHgnono	(HMNUIJ)R L(as)
HOHETHOH	nonHunono	nonNgnono	nonHanono
HOHEJHOH	nonNunono	nonUgnono	nonNanono
HOHESH OH	nonUunono	nonHđnono	nonUanono
HOHEZHOH	nonHbnono	nonNđnono	nonHsnono
HOHFTHOH	nonNbnono	nonUđnono	nonNsnono
HOHFJHOH	nonUbnono		nonUsnono
HOHFSHOH	nonHjnono	(DOQ)R L(ublijphmnr)	
HOHFZHOH	nonNjnono		(RBPG)R
HOHLTHOH	nonUjnono	nonFunono	L(ublijphmnr)
HOHLJHOH	nonHinono	nonFbnono	
HOHLSHOH	nonNinono	nonFjnono	nonRunono
HOHLZHOH	nonUinono	nonFnnono	nonRbnono

nonRjnono	nonHynono	nonZbnono	nonHfnono
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	nonAprnono	nonCunono
nonGunono	nonWnnono		nonCbnono
nonGbnono	nonWpnono	nonKunono	nonCjnono
nonGjnono		nonKbnono	nonCnnono
nonGnnono	nonVunono	nonKjnono	nonCpnono
nonGpnono	nonVbnono	nonKnnono	
	nonVjnono	nonKpnono	nonSunono
straight>void	nonVnnono		nonSbnono
(HMNUIJ)R L(vwyzx)	nonVpnono	nonRunono	nonSjnono
		nonRbnono	nonSnnono
nonHvnono	nonYunono	nonRjnono	nonSpnono
nonNvnono	nonYbnono	nonRnnono	
nonUvnono	nonYjnono	nonRpnono	nonEunono
nonHwnono	nonYnnono		nonEbnono
nonNwnono	nonYpnono	straight>open	nonEjnono
nonUwnono		(HMNUIJ)R L(fts)	nonEnnono
	nonZunono		nonEpnono

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

nonZǎnono	nonDsnono		nonRvnono	nonYsnono	L(as)
		nonLonono	nonRwnono	nonZanono	
nonZonono	nonOfnono	nonLdnono	nonRynono	nonZsnono	nonCsnono
nonZdnono	nonOtnono	nonLgnono	nonRznono	nonXanono	nonCanono
nonZgnono	nonOsnono	nonLǎnono	nonRxnono	nonXsnono	nonSsnono
nonZǎnono				nonAanono	nonSanono
	nonQfnono	nonTonono	nonBvnono	nonAsnono	nonEsnono
nonXonono	nonQtnono	nonTdnono	nonBwnono	nonKanono	nonEanono
nonXdnono	nonQsnono	nonTgnono	nonBynono	nonKsnono	nonFsnono
nonXgnono		nonTǎnono	nonBznono	nonRanono	nonFanono
nonXǎnono	(CSEFLTZ)R L (ceodqgǎ)		nonBxnono	nonRsnono	nonLsnono
		nonZonono			nonLanono
nonĀonono		nonZdnono	nonPvnono	small>open	nonTsnono
nonAdnono	nonConono	nonZgnono	nonPwnono	(RBPG)R L(fts)	nonTanono
nonĀgnono	nonCdnono	nonZǎnono	nonPynono		nonZsnono
nonĀǎnono	nonCgnono		nonPznono	nonRfnono	nonZanono
	nonCǎnono	small>small (RBPG)R L(as)	nonPxnono	nonRtnono	
nonKonono				nonRsnono	void>void (WVYZXAKR)R L(vwyzx)
nonKdnono	nonSonono		nonGvnono		
nonKgnono	nonSdnono	nonRanono	nonGwnono	nonBfnono	
nonKǎnono	nonSgnono	nonRsnono	nonGynono	nonBtnono	
	nonSǎnono	nonBanono	nonGznono	nonBsnono	nonWvnono
nonRonono		nonBsnono	nonGxnono		nonWwnono
nonRdnono	nonEonono	nonPanono		nonPfnono	nonWynono
nonRgnono	nonEdnono	nonPsnono	(WVYZXAKR)R L(as)	nonPtnono	nonWznono
nonRǎnono	nonEgnono	nonGanono		nonPsnono	nonWxnono
	nonEǎnono	nonGsnono			
full>open (DOQ)R L(fts)			nonWanono	nonGfnono	nonVvnono
	nonFonono		nonWsnono	nonGtnono	nonVwnono
	nonFdnono	small>void (RBPG)R L(vwyzx)	nonVanono	nonGsnono	nonVynono
nonDfnono	nonFgnono		nonVsnono		nonVznono
nonDtnono	nonFǎnono		nonYanono	(CSEFLTZ)R	nonVxnono

nonYvnono	nonRwnono	(CSEFLTZ)R L(vwyzx)	nonTvnono
nonYwnono	nonRynono		nonTwnono
nonYynono	nonRznono	nonCvnono	nonTynono
nonYznono	nonRxnono	nonCwnono	nonTznono
nonYxnono		nonCynono	nonTxnono
	void>open	nonCznono	
	(WVYZXAKR)R L(fts)	nonCxnono	nonZvnono
nonZvnono	nonWfnono		nonZwnono
nonZwnono	nonWtnono	nonSvnono	nonZynono
nonZynono	nonWsnono	nonSwnono	nonZznono
nonZznono	nonVfnono	nonSynono	nonZxnono
nonZxnono	nonVtnono	nonSznono	
	nonVsnono	nonSxnono	open>open
nonXvnono	nonYfnono		(CSEFLTZ)R L(fts)
nonXwnono	nonYtnono	nonEvnono	
nonXynono	nonYsnono	nonEwnono	nonCfnono
nonXznono	nonZfnono	nonEynono	nonCtnono
nonXxnono	nonZtnono	nonEznono	nonCsnono
	nonZsnono	nonExnono	nonSfnono
nonAvnono	nonXfnono		nonStnono
nonAwnono	nonXtnono	nonFvnono	nonSsnono
nonAynono	nonXsnono	nonFwnono	nonEfnono
nonAznono	nonAfnono	nonFynono	nonEtnono
nonAxnono	nonAtnono	nonFznono	nonEsnono
	nonAsnono	nonFxnono	nonFfnono
nonKvnono	nonKfnono		nonFtnono
nonKwnono	nonKtnono	nonLvnono	nonFsnono
nonKynono	nonKsnono	nonLwnono	nonLfnono
nonKznono	nonRfnono	nonLynono	nonLtnono
nonKxnono	nonRtnono	nonLznono	nonLsnono
	nonRsnono	nonLxnono	nonTfnono
nonRvnono			

nonTtnono	nonpĐnono	nonqVnono	nonaĀnono
nonTsnono	nonbĐnono	noniVnono	
nonZfnono	nonđĐnono	nonjVnono	(kvwyzx)R
nonZtnono		nonuVnono	L(HMNUIKLPRBEFĐ)
nonZsnono	straight>small round (udlijgqhmna)R L(S)	nonaVnono	
Lowercase > UPPERCASE	nonnSnono	nonnYnono	nonkHnono
	nonqSnono	nonqYnono	nonkUnono
	noniSnono	noniYnono	nonkĐnono
straight>full round (udlijqhmna)R L (CGOQ)	nonjSnono	nonjYnono	nonvHnono
nonnOnono	nonuSnono	nonuYnono	nonvUnono
nonqOnono	nonaSnono	nonaYnono	nonvĐnono
noniOnono			nonwHnono
nonjOnono	(s)R	nonnZnono	nonwUnono
nonuOnono	L(HMNUIKLPRBEF')	nonqZnono	nonwĐnono
nonaOnono	nonSnono	noniZnono	nonyHnono
	nonSUnono	nonjZnono	nonyUnono
		nonuZnono	nonyĐnono
(bpo)R	straight>void	nonaZnono	nonzHnono
L(HMNUIKLPRBEFĐ)	(udlijgqhmna)R L(WVYZXA)	nonnXnono	nonzUnono
nonoHnono		nonqXnono	nonzĐnono
nonpHnono	nonnWnono	noniXnono	nonxHnono
nonbHnono	nonqWnono	nonjXnono	nonxUnono
nonđHnono	noniWnono	nonuXnono	nonxĐnono
nonoUnono	nonjWnono	nonaXnono	
nonpUnono	nonuWnono		straight>open (udlijgqhmna)R L(TJS)
nonbUnono	nonaWnono	nonnĀnono	nonnTnono
nonđUnono		nonqĀnono	nonqTnono
nonoĐnono	nonnVnono	noniĀnono	noniTnono
		nonjĀnono	nonjTnono
		nonuĀnono	nonuTnono

nonaTnono

nonnJnono
nonqJnono
noniJnono
nonjJnono
nonuJnono
nonaJnono

nonnSnono
nonqSnono
noniSnono
nonjSnono
nonuSnono
nonaSnono

(ctfr) R
L(HMNUIKLPRBEF)

noncHnono
noncUnono
nonfHnono
nonfUnono
nontHnono
nontUnono
nonrHnono
nonrUnono

full round >full round
(bpoe)R L(CGOQ)

nonoOonono
nonpOonono
nonbOonono

full > small
(bpo)R L(S)

nonoSnono
nonpSnono
nonbSnono

(as) R L(CGOQ)

nonaOnono
nonsOnono

full > void
(bpođ)R L(WVYZXA)
(kvwyzx)R L(CGOQ)

nonoWnono
nonpWnono
nonbWnono
nonđWnono
nonoVnono
nonpVnono
nonbVnono
nonđVnono
nonoYnono
nonpYnono
nonbYnono

nonđYnono

nonoZnono
nonpZnono
nonbZnono
nonđZnono
nonoXnono
nonpXnono
nonbXnono
nonđXnono
nonoAnono
nonpAnono
nonbAnono
nonđAnono

full>open
(bpođ)R L(TJS)

nonoTnono
nonpTnono
nonbTnono
nonđTnono

nonoJnono
nonpJnono
nonbJnono
nonđJnono

nonoSnono
nonpSnono
nonbSnono
nonđSnono

(ctfr) R L(CGOQ)

noncOnono
nonfOnono
nontOnono
nonrOnono

small>small
(s)R L(S)

nonsSsnono

small>void
(s)R L(WVYZXA)

nonsWnono
nonsVnono
nonsYnono
nonsZnono
nonsXnono
nonsAnono

(kvwyzx)R L(S)

nonkSnono
nonvSnono
nonwSnono
nonySnono
nonzSnono
nonxSnono

small>open

(s)R L(TJS)	nonwYnono	nonyTnono	nonfYnono
	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	noncYnono	nonfJnono
nonkYnono	nonvTnono	nontYnono	nonrJnon
nonvYnono	nonwTnono		

noncSnono			
nontSnono	straight>small round	007100	000000
nonfSnono	(1) R L(98)	002100	000600
nonrSnono			009000
	001900	straight>open	009600
	001800	(1) R L(239)	
Figures			full round >small
	111911	111211	round
straight > straight	111811	111311	(09) R L(98)
001100		111911	
111111	(8356) R L (1)		110911
HH11HH		001200	110811
nn11nn	008100	001300	119911
	003100	001900	119811
straight>full round	005100		
(1) R L (06)	006100	(654)R L(1)	000900
			000800
001000	118111	116111	009900
001600	113111	115111	009800
	115111	114111	
111011	116111		L(98) L (06)
111611		006100	
	straight>void	005100	119011
	(1) R L(4)	004100	119611
(09) R L (1)			118011
	111411	full round >full round	118611
009100	001400	(09) R L (06)	
000100			009000
	(72)R L (1)	110011	009600
119111		110611	008000
110111	117111	119011	008600
	112111	119611	

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

003900	112411	004400	jj, jy, qj, qg, gg, gp, gy, fh, fk, fl, fb, fi, fj, ff, ft
005200	007400	open > open	
005300	002400	(654)R L(239)	L4 F'7 6T T'7
005900			
006200	void > open	116211	
006300	(72)R L(239)	116311	
006900		116911	
	117211	115211	
	117311	115311	
	117911	115911	
	112211	114211	
(654)R L(98)	112311	114311	
	112911	114911	
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		

