LOWERCASE

straight>straight
(udlijqhmna)R
L(ublijphmnr)

nonnnnono
nonnunono
nonnbnono
nonninono
nonnjnono
nonnpnono
nonnunono
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
nononono
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

nonkunono
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
noncnonon
noncjnonon
nonclonon
noncpnonon
nontunono
nontbnono

nontnonon		nonpyonon	nonvgnono	noncðnonon	nonkanonon
nontjnonon	full > small	nonbynono	nonwgonon	nontononon	nonksnonon
nontlonon	(bpo)R L(as)	nongynono	nonygonon	nontdnonon	nonvanonon
nontpnonon	nonoanono	nonoznono	nonzgnonon	nontgnonon	nonvsnonon
nonfunono	nonpaonon	nonpzonon	nonxgnonon	nontðnonon	nonwanonon
nonfbnono	nonosnono	nonbznono	nonkenonon	nonfononon	nonwsnonon
nonfnonon	nonpsonon	nongznono	nonvenono	nonfdnonon	nonyanonon
nonfjnonon		nonoxnono	nonweonon	nonfgnonon	nonysnonon
nonflonon	(as) R L (ceodqgð)	nonpxonon	nonyeonon	nonfðnonon	nonzanonon
nonfpnonon		nonbxnono	nonzenonon	nonrononon	nonzsnonon
nonrunono	nonaonono	nongxnono	nonxenonon	nonrdnonon	nonxanonon
nonrbnono	nonaenono	nongxnono		nonrgnonon	nonxsnonon
nonrnonon	nonagnono		full>open	nonrðnonon	
nonrjnonon	nonadnono		(bpo)R L(fts)	noneononon	small>open
nonrlonon	nonaðnono	(kvwyzx)R L (ceodqgð)		nonednonon	(s)R L(fts)
nonrpnonon	nonsonono	nonkonono	nonofnono	nonegnonon	nonsfnonon
noneunono	nonsenono	nonvonono	nonpfonon	noneðnonon	nonstnonon
nonebnono	nonsgnono	nonwoonon	nonbfnono		nonssnonon
nonenonon	nonsdnono	nonyoonon	nonotnono	small>small	
nonejnonon	nonsðnono	nonkðnono	nonptonon	(s)R L(as)	(ctfre) R L(as)
nonelonon		nonvðnono	nonbtnono	nonsanonon	noncanonon
nonepnonon	full > void	nonwðonon	nonosnono	nonssnonon	noncsnonon
	(bpog)R L(vwyzx)	nonyðonon	nonpsonon		nontanonon
full round >full round	nonovnono	nonzðnonon	nonbsnono	small>void	nontsnonon
(bpo)R L (ceodqgð)	nonpvonon	nonxðnonon	nonoanono	(s)R L(vwyzx)	nonfanonon
	nonbvnono	nonkdnono	nonpaonon	nonsvnonon	nonfsnonon
nonocnono	nongvnono	nonvdnono	nonbanono	nonswnonon	nonranonon
nonoenono	nonownono	nonwdonon		nonsynonon	nonrsnonon
nonognono	nonpwonon	nonydonon	(ctfre) R L (ceodqgð)	nonsznonon	noneanonon
nonoðnono	nonbwnono	nonzdnonon	noncononon	nonsxnonon	nonesnonon
nonpdonon	nongwnono	nonxdnonon	noncdnonon		
nonooonon	nonoynono	nonkgnono	noncgnonon	(kvwyzx)R L(as)	void>void

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(kvwyzx)R L(vwyzx)

nonkvnonon

nonkwnonon

nonkynonon

nonkznonon

nonkxnonon

nonvvnonon

nonvwnonon

nonvynonon

nonvznonon

nonvxnonon

nonwvnonon

nonwwnonon

nonwynonon

nonwznonon

nonwxnonon

nonyvnonon

nonywnonon

nonyynonon

nonyznonon

nonyxnonon

nonzvnonon

nonzwnonon

nonzynonon

nonzznonon

nonzxnonon

nonxvnonon

nonxwnonon

nonxynonon

nonxznonon

nonxxnonon

void>open

(kvwyzx)R L(fts)

nonkfnonon

nonktnonon

nonksnonon

nonvfnonon

nonvtnonon

nonvsnonon

nonwfnonon

nonwtnonon

nonwsnonon

nonyfnonon

nonytnonon

nonysnonon

nonzfnonon

nonztnonon

nonzsnonon

nonxfnonon

nonxtnonon

nonxsnonon

(ctfre) R L(vwyzx)

noncvnonon

noncwnonon

noncynonon

noncznonon

nontvnonon

nontwnonon

nontynonon

nontznonon

nontxnonon

nonfvnonon

nonfwnonon

nonfynonon

nonfznonon

nonfxnonon

nonrvnonon

nonrwnonon

nonrynonon

nonrznonon

nonrxnonon

nonevnonon

nonewnonon

noneynonon

noneznonon

nonexnonon

open>open

(ctfre) R L(fts)

noncfnonon

nonctnonon

noncsnonon

nontfnonon

nonttnonon

nontsnonon

nonffnonon

nonftnonon

nonfsnonon

nonrfnonon

nonrtnonon

nonrsnonon

nonefnonon

nonetnonon

nonesnonon

UPPERCASE

straight>straight

(HMNUIJ)R
L(HMNUIKLPRBEFÐ)

HOHHHHOH

HOHHMHOH

HOHHNHOH

HOHHUHOH

HOHHIHOH

HOHHKHOH

HOHHLHOH

HOHHÐHOH

HOHMHHOH

HOHMMHOH

HOHMNHOH

HOHMUHOH

HOHMIHOH

HOHMKHOH

HOHMLHOH

HOHMÐHOH

HOHNHHOH

HOHNMHOH

HOHNNHOH

HOHNUHOH

HOHNIHOH

HOHNKHOH

HOHNLHOH

HOHNÐHOH

HOHUHHOH

HOHUMHOH

HOHUNHOH

HOHUUHOH

HOHUIHOH

HOHUKHOH

HOHULHOH

HOHUÐHOH

HOHIHHOH

HOHIMHOH

HOHINHOH

HOHIUHOH

HOHIIHOH

HOHIKHOH

HOHILHOH

HOHIÐHOH

HOHJHHOH

HOHJMHOH

HOHJNHOH

HOHJUHOH

HOHJIHOH

HOHJKHOH

HOHJLHOH

HOHJÐHOH

straight>full round

(HMNUIJ)R L (CGOQ)

HOHHOHOH

HOHNOHOH

HOHUOHOH

HOHHCHOH

HOHNCHOH

HOHUCHOH

(DOQÞ)R
L(HMNUIKLPRBEFÐ)

HOHOUHOH

HOHQUHOH

HOHDUHOH

HOHÞUHOH

HOHOHHOH

HOHQHHOH

HOHDHHOH

HOHÞHHOH

HOHOÐHOH

HOHQÐHOH

HOHDÐHOH

HOHÞÐHOH

straight>small round

(HMNUIJ)R L(S)

OHOHSHOH

OHONSHOH

OHOUSHOH

(RBP)R
L(HMNUIKLPRBEFÐ)

HOHRHHOH	HOHNAHOH	OHONSHOH	(DOQÞ)R L(CGOQ)	HOHQVHOH	HOHÞTHOH
HOHRNHOH	HOHUAHOH	OHOUSHOH	HOHÞOHOH	HOHDYHOH	HOHOTHOH
HOHRUHOH			HOHDOHOH	HOHÞYHOH	HOHQTHOH
HOHRÐHOH		(CGSEFLTZ)R	HOHDCHOH	HOHOYHOH	HOHDJHOH
HOHBHHOH	(WVYZXAKR)R	L(HMNUIKLPRBEFÐ)	HOHDQHOH	HOHQYHOH	HOHÞJHOH
HOHBNHOH	L(HMNUIKLPRBEF)	HOHCUHOH	HOHQOHOH	HOHÞZHOH	HOHOJHOH
HOHBUHOH	HOHWUHOH	HOHCHHOH	HOHQCHOH	HOHDZHOH	HOHQJHOH
HOHBÐHOH	HOHWHHOH	HOHCÐHOH	HOHQQHOH	HOHOZHOH	HOHDSHOH
HOHPHHOH	HOHVUHOH	HOHGUHOH		HOHQZHOH	HOHÞSHOH
HOHPNHOH	HOHVHHOH	HOHGHHOH	full > small	HOHPXHOH	HOHOSHOH
HOHPUHOH	HOHYUHOH	HOHGÐHOH	(DOQÞ)R L(S)	HOHDXHOH	HOHQSHOH
HOHPÐHOH	HOHYHHOH	HOHSUHOH		HOHOXHOH	HOHDZHOH
	HOHZUHOH	HOHSHHOH	HOHÞSHOH	HOHQXHOH	HOHÞZHOH
	HOHZHHOH	HOHSÐHOH	HOHDSHOH	HOHÞAHOH	HOHOZHOH
straight>void	HOHXUHOH	HOHEUHOH	HOHOSHOH	HOHDAHOH	HOHQZHOH
(HMNUIJ)R L(WVYZXА)	HOHXHHOH	HOHEHHOH	HOHQSHOH	HOHOAHOH	HOHOZHOH
HOHHVHOH	HOHAUHOH	HOHEÐHOH		HOHQAHOH	(CSEFLTZG)R L(CGOQ)
HOHNVHOH	HOHAHHOH	HOHFUHOH	(RBP)R L(CGOQ)		HOHCOHOH
HOHUVHOH	HOHKUHOH	HOHFHHOH	HOHROHOH	(WVYZXAKR)R L(CGOQ)	HOHSOHOH
HOHHWHOH	HOHKHHOH	HOHFÐHOH	HOHBOHOH	HOHWOHOH	HOHEOHOH
HOHNWHOH	HOHRUHOH	HOHLUHOH	HOHPOHOH	HOHVOHOH	HOHFOHOH
HOHUWHOH	HOHRHHOH	HOHLHHOH		HOHYOHOH	HOHLOHOH
HOHHYHOH		HOHLÐHOH	full > void	HOHZOHOH	HOHTOHOH
HOHNYHOH	straight>open	HOHTUHOH	(DOQÞ)R L(WVYZXA)	HOHXOHOH	HOHZOHOH
HOHUYHOH	(HMNUIJ)R L(TJS)	HOHTHHOH		HOHAOHOH	HOHGOHOH
HOHHZHOH	OHOHTHOH	HOHTÐHOH	HOHDWHOH	HOHKOHOH	
HOHNZHOH	OHONTHOH	HOHZUHOH	HOHÞWHOH	HOHROHOH	
HOHUZHOH	OHOUTHOH	HOHZHHOH	HOHOWHOH		small>small
HOHHXHOH	OHOHJHOH	HOHZÐHOH	HOHQWHOH		(RBP)R L(S)
HOHNXHOH	OHONJHOH		HOHÞVHOH	full>open	HOHRSHOH
HOHUXHOH	OHOUJHOH		HOHDVHOH	(DOQ)R L(TJSZ)	HOHBSHOH
HOHHAHOH	OHOHSHOH	full round >full round	HOHOVHOH	HOHDTHOH	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
HOHRZHOH
HOHRZHOH
HOHRZHOH

HOHBTHOH
HOHBTHOH
HOHBTHOH
HOHBJHOH
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)

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

HOHYWHOH HYWYH
HOHYVHOH HYVYH
HOHYYHOH HYYYH
HOHYZHOH HYZYH
HOHYXHOH HYXYH
HOHYAHOH HYAYH

HOHZWHOH HZWZH
HOHZVHOH HZVZH
HOHZYHOH HZYZH

HOHZZHOH HZZZH
HOHZXHOH HZXZH
HOHZAHOH HZAZH

HOHXWHOH HXWXH
HOHXVHOH HXVXH
HOHXYHOH HXYXH
HOHXZHOH HXZXH
HOHXXHOH HXXXH
HOHXAHOH HXAXH

HOHAWHOH HAWAH
HOHAVHOH HAVAH
HOHAYHOH HAYAH
HOHAZHOH HAZAH
HOHAXHOH HAXAH
HOHAAHOH HAAAH

void>open
(WVYZXAKR)R L(TJS)

HOHWTHOH
HOHWJHOH
HOHWSHOH
HOHVTHOH
HOHVJHOH
HOHVSHOH

HOHYTHOH
HOHYJHOH
HOHYSHOH

HOHSVHOH HSVSH

HOHZTHOH
HOHSZHOH HSZSH
HOHZWHOH HZWZH
HOHTTHOH
nonHjnono
nonÞpnono

HOHZJHOH
HOHSXHOH HSXSH
HOHZYHOH HZYZH
HOHTJHOH
nonNjnono
nonDunono

HOHZSHOH
HOHSAHOH HSASH
HOHZVHOH HZVZH
HOHTSHOH
nonUjnono
nonDbnono

HOHZZHOH HZZZH
HOHTZHOH
nonHpnono
nonDjnono

HOHXTHOH
HOHEWHOH
HOHZXHOH HZXZH
HOHZTHOH
nonNpnono
nonDnnono

HOHXJHOH
HOHEYHOH
HOHZAHOH HZAZH
HOHZJHOH
nonUpnono
nonDpnono

HOHXSHOH
HOHEVHOH
HOHZSHOH
nonHhnono
nonOunono

HOHEZHOH
HOHZZHOH
nonNhnono
nonObnono

nonUhnono
nonOjnono

HOHATHOH
HOHEXHOH
open>open
UPPERCASE >
nonOnnono

HOHAJHOH
HOHEAHOH
(CSEFLTZ)R L(TJZ)
Lowercase
straight>full round
nonOpnono

HOHASHOH
(HMINUJ)R L (ceodqgð)
nonQunono

HOHFWHOH
HOHCTHOH
straight>straight
nonQbnono

HOHKTHOH HKTXH
HOHFYHOH
HOHCJHOH
nonHonono
nonQjnono

HOHKJHOH HKJXH
HOHFVHOH
HOHCSHOH
(HMINUJ)R
nonNonono
nonQnnono

HOHKSHOH HKSXH
HOHFZHOH
HOHCZHOH
L(ublijphmnr)
nonUonono
nonQpnono

HOHFXHOH
HOHSTHOH
nonHdnono

HOHRTHOH HRTXH
HOHFAHOH
HOHSJHOH
nonHnnono
nonNdnono

HOHRJHOH HRJXH
HOHSSHOH
nonNnnono
nonUdnono
straight>small round

HOHRSHOH HRSXH
HOHLWHOH
HOHSZHOH
nonUnnono
nonHgnono
(HMNUIJ)R L(as)

HOHLYHOH
HOHETHOH
nonHunono
nonNgnono
nonHanono

(CSEFLTZ)R L(WVYZXA)
HOHLVHOH
HOHEJHOH
nonNunono
nonUgnono
nonNanono

HOHLZHOH
HOHESHOH
nonUunono
nonHðnono
nonUanono

HOHCWHOH
HOHLXHOH
HOHEZHOH
nonHbnono
nonNðnono
nonHsnono

HOHCYHOH
HOHLAHOH
HOHFTHOH
nonNbnono
nonUðnono
nonNsnono

HOHCVHOH
HOHFJHOH
nonUbnono
nonUsnono

HOHCZHOH
HOHTWHOH HTWTH
HOHFSHOH
nonHjnono
(DOQ)R L(ublijphmnr)

HOHCXHOH
HOHTYHOH HTYTH
HOHFZHOH
nonNjnono
(RBPG)R L(ublijphmnr)

HOHCAHOH
HOHTVHOH HTVTH
HOHLTHOH
nonUjnono
nonPunono

HOHTZHOH HTZTH
HOHLJHOH
nonHinono
nonÞbnono
nonRunono

HOHSWHOH HSWSH
HOHTXHOH HTXTH
HOHLSHOH
nonNinono
nonÞjnono
nonRbnono

HOHSYHOH HSYSH
HOHTAHOH HTATH
HOHLZHOH
nonUinono
nonÞnnono
nonRjnono

Column 1

nonRnnono
nonRpnono

nonBunono
nonBbnono
nonBjnono
nonBnnono
nonBpnono

nonPunono
nonPbnono
nonPjnono
nonPnnono
nonPpnono

nonGunono
nonGbnono
nonGjnono
nonGnnono
nonGpnono

straight>void
(HMNUIJ)R L(vwyzx)

nonHvnono
nonNvnono
nonUvnono
nonHwnono
nonNwnono
nonUwnono
nonHynono

Column 2

nonNynono
nonUynono
nonHznono
nonNznono
nonUznono
nonHxnono
nonNxnono
nonUxnono

(WVYZXAKR)R
L(ublijphmnr)

nonWunono
nonWbnono
nonWjnono
nonWnnono
nonWpnono

nonVunono
nonVbnono
nonVjnono
nonVnnono
nonVpnono

nonYunono
nonYbnono
nonYjnono
nonYnnono
nonYpnono

nonZunono
nonZbnono

Column 3

nonZjnono
nonZnnono
nonZpnono

nonXunono
nonXbnono
nonXjnono
nonXnnono
nonXpnono

nonAunono
nonAbnono
nonAjnono
nonAnnono
nonApnono

nonKunono
nonKbnono
nonKjnono
nonKnnono
nonKpnono

nonRunono
nonRbnono
nonRjnono
nonRnnono
nonRpnono

straight>open
(HMNUIJ)R L(fts)

nonHfnono

Column 4

nonNfnono
nonUfnono
nonHtnono
nonNtnono
nonUtnono

nonHsnono
nonNsnono
nonUsnono

(CSEFLTZ)R
L(ublijphmnr)

nonCunono
nonCbnono
nonCjnono
nonCnnono
nonCpnono

nonSunono
nonSbnono
nonSjnono
nonSnnono
nonSpnono

nonEunono
nonEbnono
nonEjnono
nonEnnono
nonEpnono

Column 5

nonFunono
nonFbnono
nonFjnono
nonFnnono
nonFpnono

nonLunono
nonLbnono
nonLjnono
nonLnnono
nonLpnono

nonTunono
nonTbnono
nonTjnono
nonTnnono
nonTpnono

nonZunono
nonZbnono
nonZjnono
nonZnnono
nonZpnono

nonZhnono
nonZhnono
nonZhnono
nonZhnono
nonZhnono

Column 6

nonDonono
nonDdnono
nonDgnono
nonDðnono
nonÞonono
nonÞdnono
nonÞgnono
nonÞðnono
nonOonono
nonOdnono
nonOgnono
nonOðnono
nonQonono
nonQdnono
nonQgnono
nonQðnono

full > small
(DOQ)R L(as)

nonDanono
nonDsnono
nonÞanono
nonÞsnono
nonOanono
nonOsnono
nonQanono
nonQsnono

full round >full round
(DOQ)R L (ceodqgð)
(RBP)R L (ceodqg)

nonRonono
nonRdnono
nonRgnono
nonRǒnono

nonBonono
nonBdnono
nonBgnono
nonBǒnono

nonPonono
nonPdnono
nonPgnono
nonPǒnono

full > void
(DOQ)R L(vwyzx)

nonDvnono
nonDwnono
nonDynono
nonDznono
nonDxnono

nonÞvnono
nonÞwnono
nonÞynono
nonÞznono
nonÞxnono

nonOvnono
nonOwnono

nonOynono
nonOznono
nonOxnono

nonQvnono
nonQwnono
nonQynono
nonQznono
nonQxnono

(WVYZXAKR)R L
(ceodqgð)

nonWonono
nonWdnono
nonWgnono
nonWǒnono

nonKonono
nonKdnono
nonKgnono
nonKǒnono

nonVonono
nonVdnono
nonVgnono
nonVǒnono

nonYonono
nonYdnono
nonYgnono
nonYǒnono

nonZonono
nonZdnono
nonZgnono
nonZǒnono

nonZonono
nonZdnono
nonZgnono
nonZǒnono

nonXonono
nonXdnono
nonXgnono
nonXǒnono

nonAonono
nonAdnono
nonAgnono
nonAǒnono

nonKonono
nonKdnono
nonKgnono
nonKǒnono

nonRonono
nonRdnono
nonRgnono
nonRǒnono

full>open
(DOQ)R L(fts)

nonDfnono
nonDtnono
nonDsnono

nonOfnono
nonOtnono
nonOsnono

nonQfnono
nonQtnono
nonQsnono

(CSEFLTZ)R L (ceodqgð)

nonConono
nonCdnono
nonCgnono
nonCǒnono

nonSonono
nonSdnono
nonSgnono
nonSǒnono

nonEonono
nonEdnono
nonEgnono
nonEǒnono

nonFonono
nonFdnono
nonFgnono
nonFǒnono

nonLonono

nonLdnono
nonLgnono
nonLǒnono

nonTonono
nonTdnono
nonTgnono
nonTǒnono

nonZonono
nonZdnono
nonZgnono
nonZǒnono

small>small
(RBPG)R L(as)

nonRanono
nonRsnono
nonBanono
nonBsnono

nonPanono
nonPsnono
nonGanono
nonGsnono

small>void
(RBPG)R L(vwyzx)
nonRvnono
nonRwnono
nonRynono

nonRznono
nonRxnono

nonBvnono
nonBwnono
nonBynono
nonBznono
nonBxnono

nonPvnono
nonPwnono
nonPynono
nonPznono
nonPxnono

nonGvnono
nonGwnono
nonGynono
nonGznono
nonGxnono

(WVYZXAKR)R L(as)

nonWanono
nonWsnono
nonVanono
nonVsnono
nonYanono
nonYsnono
nonZanono
nonZsnono
nonXanono

nonXsnono
nonAanono
nonAsnono
nonKanono
nonKsnono
nonRanono
nonRsnono

small>open
(RBPG)R L(fts)

nonRfnono
nonRtnono
nonRsnono

nonBfnono
nonBtnono
nonBsnono

nonPfnono
nonPtnono
nonPsnono

nonGfnono
nonGtnono
nonGsnono

(CSEFLTZ)R L(as)

nonCsnono
nonCanono
nonSsnono

nonSanono
nonEsnono
nonEanono
nonFsnono
nonFanono
nonLsnono
nonLanono
nonTsnono
nonTanono
nonZsnono
nonZanono

void>void
(WVYZXAKR)R L(vwyzx)

nonWvnono
nonWwnono
nonWynono
nonWznono
nonWxnono

nonVvnono
nonVwnono
nonVynono
nonVznono
nonVxnono

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
nonFsnono
nonLfnono
nonLtnono
nonLsnono
nonTfnono
nonTtnono
nonTsnono
nonZfnono
nonZtnono
nonZsnono

nonnSnono

Lowercase >
UPPERCASE

nonqSnono

noniSnono

nonjSnono

straight>full round
(udlijqhmna)R L (CGOQ)

nonuSnono

nonaSnono

nonnOnono

nonqOnono

noniOnono

nonjOnono

nonuOnono

nonaOnono

(bpo)R
L(HMNUIKLPRBEFÐ)

nonoHnono

nonpHnono

nonbHnono

nonðHnono

nonoUnono

nonpUnono

nonbUnono

nonðUnono

nonoÐnono

nonpÐnono

nonbÐnono

nonðÐnono

straight>small round
(udlijgqhmna)R L(S)

noniYnono

nonjYnono

nonuYnono

nonaYnono

nonnZnono

nonqZnono

noniZnono

nonjZnono

nonuZnono

nonaZnono

straight>void
(udlijgqhmna)R
L(WVYZXA)

nonsHnono

nonsUnono

nonnWnono

nonqWnono

noniWnono

nonjWnono

nonuWnono

nonaWnono

nonnVnono

nonqVnono

noniVnono

nonjVnono

nonuVnono

nonaVnono

nonkHnono

nonnYnono

nonqYnono

nonnXnono

nonqXnono

noniXnono

nonjXnono

nonuXnono

nonaXnono

nonnAnono

nonqAnono

noniAnono

nonjAnono

nonuAnono

nonaAnono

(kvwyzx)R
L(HMNUIKLPRBEFÐ)

nonkUnono

nonkÐnono

nonvHnono

nonvUnono

nonvÐnono

nonwHnono

nonwUnono

nonwÐnono

nonyHnono

nonyUnono

nonyÐnono

nonzHnono

nonzUnono

nonzÐnono

nonxHnono

nonxUnono

nonxÐnono

straight>open
(udlijgqhmna)R L(TJS)

nonnTnono

nonqTnono

noniTnono

nonjTnono

nonuTnono

nonaTnono

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

nonnJnono

nonqJnono

noniJnono

nonjJnono

nonuJnono

nonaJnono

nonnSnono

nonqSnono

noniSnono

nonjSnono

nonuSnono

nonaSnono

(ctfr) R
L(HMNUIKLPRBEF)

noncHnono

noncUnono

nonfHnono

nonfUnono

nontHnono

nontUnono

nonrHnono

nonrUnono

nonoOonono

nonpOonono

nonbOonono

full > small
(bpo)R L(S)

nonoSnono

nonpSnono

nonbSnono

(as) R L(CGOQ)

nonaOnono

nonsOnono

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

nonoWnono

nonpWnono

nonbWnono

nonðWnono

nonoVnono

nonpVnono

nonbVnono

nonðVnono

nonoYnono

nonpYnono

nonbYnono

nonðYnono

nonoZnono

nonpZnono

nonbZnono

nonðZnono

nonoXnono

nonpXnono

nonbXnono

Column 1:

nonðXnono
nonoAnono
nonpAnono
nonbAnono
nonðAnono

full>open
(bpoð)R L(TJS)

nonoTnono
nonpTnono
nonbTnono
nonðTnono

nonoJnono
nonpJnono
nonbJnono
nonðJnono

nonoSnono
nonpSnono
nonbSnono
nonðSnono

(ctfr) R L(CGOQ)

noncOnono
nonfOnono
nontOnono
nonrOnono

small>small

Column 2:

(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)

nonsTsnono
nonsJnono
nonsSsnono

(ctfr) R L(S)

Column 3:

noncSnono
nontSnono
nonfSnono
nonrSnono

void>void
(kvwyzx)R L(WVYZXA)

nonkWnono
nonvWnono
nonwWnono
nonyWnono
nonzWnono
nonxWnono

nonkVnono
nonvVnono
nonwVnono
nonyVnono
nonzVnono
nonxVnono

nonkYnono
nonvYnono
nonwYnono
nonyYnono
nonzYnono
nonxYnono

nonkZnono
nonvZnono
nonwZnono

Column 4:

nonyZnono
nonzZnono
nonxZnono

nonkXnono
nonvXnono
nonwXnono
nonyXnono
nonzXnono
nonxXnono

nonkAnono
nonvAnono
nonwAnono
nonyAnono
nonzAnono
nonxAnono

void>open
(kvwyzx)R L(TJS)

nonkTnono
nonvTnono
nonwTnono
nonyTnono
nonzTnono
nonxTnono

nonkJnono
nonvJnono
nonwJnono
nonyJnono

Column 5:

nonzJnono
nonxJnono

nonkSnono
nonvSnono
nonwSnono
nonySnono
nonzSnono
nonxSnono

(ctfr) R L(WVYZXA)

open>open

noncWnono
nontWnono
nonfWnono
nonrWnono

noncVnono
nontVnono
nonfVnono
nonrVnono

noncYnono
nontYnono
nonfYnono
nonrYnono

noncZnono
nontZnono
nonfZnono
nonrZnono

Column 6:

noncXnono
nontXnono
nonfXnono
nonrXnono

noncAnono
nontAnono
nonfAnono
nonrAnono

(ctfr) R L(TJS)

noncTnono
nontTnono
nonfTnono
nonrTnono

noncJnono
nontJnono
nonfJnono
nonrJnon

noncSnono
nontSnono
nonfSnono
nonrSnono

Figures

straight > straight

001100

111111

HH11HH

nn11nn

straight>full round

(1) R L (06)

001000

001600

111011

111611

(09) R L (1)

009100

000100

119111

110111

straight>small round

(1) R L(98)

001900

001800

111911

111811

(8356) R L (1)

008100

003100

005100

006100

118111

113111

115111

116111

straight>void

(1) R L(4)

111411

001400

(72)R L (1)

117111

112111

007100

002100

straight>open

(1) R L(239)

111211

111311

111911

001200

001300

001900

(654)R L(1)

116111

115111

114111

006100

005100

004100

full round >full round

(09) R L (06)

110011

110611

119011

119611

000000

000600

009000

009600

full round >small round

(09) R L(98)

110911

110811

119911

119811

000900

000800

009900

009800

L(98) L (06)

119011

119611

118011

118611

009000

009600

008000

008600

full > void

(09) R L(4)

110411

119411

000400

009400

(72)R L (06)

117011

117611

112011

112611

007000

007600

002000

002600

full > open

(09) R L(239)

110211

110311

110911

119211

119311

119911

000200

000300

000900

009200

009300

009900

(654)R L (06)

116011

116611

115011

115611

114011

114611

006000

006600

005000

005600

004000

004600

small > small

(8356) R L(98)

118911

118811

113911

113811

115911

115811

116911

116811

008900

008800

003900

003800

005900

005800

006900

006800

small > void

(8356) R L(4)

118411

113411

115411

116411

008400

003400

005400

006400

(72)R L(98)

117911

112911

117811

112811

007900

002900

007800

002800

small > open

(8356) R L(239)

118211

118311

118911

113211

113311

113911

115211

115311

115911

116211

116311

116911

008200

008300

008900

003200

003300

003900

005200

005300

005900

006200

006300

006900

(654)R L(98)

116911

116811

115911

115811

114911

114811

006900

006800

005900

005800

004900

004800

void > void

(72)R L(4)

117411

112411

007400

002400

void > open

(72)R L(239)

117211

117311

117911

112211

112311

112911

007200

007300

007900

002200

002300

002900

(654)R L(4)

116411

115411

114411

006400

005400

004400

open > open

(654)R L(239)

116211

116311

116911

115211

115311

115911

114211

114311

114911

006200

006300

006900

005200

005300

005900

004200

004300

004900

collisions U>L & L>U

fT fY

Qj Qy Qp Qj Fl tA gT gV gX

jj, jy, qj, qg, gg, gp, gy, fh, fk, fl, fb, fi, fj, ff, ft

L4 F7 6T T7