

LOWERCASE

straight>straight
(udlijqhmna)R
L(ublijphmnr)

nonnnnnono
nonnnunono
nonnnbnono
nonnninono
nonnnjnono
nonnnpnono
nonnuunono
nonnubnono
nonnuinono
nonnujnono
nonnupnono
nonnunnono
nonnqunono
nonnqbnono
nonnqinono
nonnqjnono
nonnqpnono
nonnqnnono
nonnjunono
nonnjbnono
nonnjinono
nonnjjnono
nonnjpnono
nonnjnnono
nonnnunono
nonnnbnono

nonnninono
nonnnjnono
nonnnpnono
nonnnnnono
nonnaunono
nonnabnono
nonnainono
nonnajnono
nonnapnono
nonnannono
nonniunono
nonnibnono
nonniinono
nonnijnono
nonnipnono
nonninnono

straight>full round
(udlijqhmna)R L
(ceodqgđ)
nonnuonono
nonnugnono
nonnuðnono
nonnqonono
nonnqgnono
nonnqðnono
nonnjonono
nonnjgnono
nonnjðnono
nonnionono
nonnignono

nonniðnono
nonnnonono
nonnngnono
nonnñnono
nonnonono

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

straight>small round
(udlijqhmna)R L(as)
nonnuanono
nonnusnono
nonnqanono
nonnqsnono
nonnjanono
nonnjsnono
nonnaanonono
nonnasnono
nonnianono
nonnisnono
nonnlanono
nonnlsnono
nonnnanonono
nonnnsnono

(s)R L(ublijphmnr)
nonsunono

nonsbnono
nonsnnonon
nonsjnnonon
nonslnnonon

straight>void
(udlijqhmna)R
L(vwyzx)

nonavnono
nonaynono
nonnaznono
nonnaxnono
nonnuvnono
nonnuynono
nonnuznono
nonnuxnono
nonnqvnono
nonnqwnono
nonnqynono
nonnqznono
nonnqxnono
nonnjvnono
nonnjynono
nonnjznono
nonnjxnono
nonnivnono
nonniynono
nonniznono
nonnixnono
nonnvnono

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

non**tb**nono
nontnnonon
nontjnonon
nont**l**onon
nontpnnonon
non**f**unono
nonfbnono
non**f**nnonon
nonfjnonon
non**f**lonon
nonfpnnonon
nonrunono
nonrbnono
nonrnonon
nonrjnonon
nonrlonon
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
nonownono
nonpwonon
nonbwnono
nongwnono

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
nonoanono
nonpaonon
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
nonvttnnonon
nonvsnnonon
nonwfnnonon
nonwttnnonon
nonwsnnonon
nonyfnnonon
nonyttnnonon
nonysnnonon
nonzfnnonon
nonzttnnonon
nonzsnnonon
nonxfnnonon
nonxttnnonon
nonxsnnonon

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

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

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

nonrsnnonon
nonefnnonon
nonetnnonon
nonesnnonon

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

HOHN^UHOH
HOH^NIHOH
HOHNKHOH
HOHNLHOH
HOHN^ÐHOH

HOHUHHOH
HOHUMHOH
HOHUNHOH
HOH^UHOH
HOHUIHOH
HOHUKHOH
HOHULHOH
HOHU^ÐHOH

HOHIHHOH
HOHIMHOH
HOHINHOH
HOHIUHOH
HOHIIHOH
HOHIKHOH
HOHIL^{HOH}
HOHI^ÐHOH

HOHJHHOH
HOHJMH^{HOH}
HOHJNHOH
HOHJUHOH
HOHJIHOH
HOHJKHOH
HOHJLHOH
HOHJ^ÐHOH

straight>full round
(HMNUIJ)R L (CGOQ)
HOHHOHOH
HOHN^OHOH
HOHUOHOH
HOHHCHOH
HOHNCHOH
HOHUCHOH

(DOQ^P)R
L(HMNUIKLP^RBEF^Ð)
HOHO^UHOH
HOHQ^UHOH
HOHD^UHOH
HOH^PUHOH
HOHOHHOH
HOHQHHOH
HOHDHHOH
HOH^PHHOH
HOH^O^ÐHOH
HOHQ^ÐHOH
HOHD^ÐHOH
HOH^P^ÐHOH

straight>small round
(HMNUIJ)R L(S)
OHOHSHOH
OHONSHOH
OHO^USHOH

(RBP)R

L(HMNUIKLP^RBEF^Ð)
HOHRHHOH
HOHRNHOH
HOHRUHOH
HOHR^ÐHOH
HOHBHHOH
HOHBNHOH
HOHBUHOH
HOHB^ÐHOH
HOHPHHOH
HOHPNHOH
HOHPUHOH
HOH^P^ÐHOH

straight>void
(HMNUIJ)R L(WVYZXA)
HOHHVHOH
HOHNVHOH
HOHUVHOH
HOHHWHOH
HOHNWHOH
HOHUWHOH
HOHHYHOH
HOHNYHOH
HOHUYHOH
HOHHZHOH
HOHNZHOH
HOHUZHOH
HOHHXHOH
HOHNXHOH
HOHUXHOH

HOHHAHOH
HOHNAHOH
HOHUAHOH

(WVYZXAKR)R
L(HMNUIKLP^RBEF['])
HOHWUHOH
HOHWHHOH
HOHVUHOH
HOHVHHOH
HOHYUHOH
HOHYHHOH
HOHZUHOH
HOHZHHOH
HOHXUHOH
HOHXHHOH
HOHAUHOH
HOHAHHOH
HOHKUHOH
HOHKHHOH
HOHRUHOH
HOHRHHOH

straight>open
(HMNUIJ)R L(TJS)
OHOHTHOH
OHONTHOH
OHOUTHOH
OHOHJHOH
OHON^NJHOH
OHO^UJHOH

OHOHSHOH
OHONSHOH
OHOUSHOH

(CGSEFLTZ)R
L(HMNUIKLPRBEFÐ)
HOHC^UHOH
HOHCHHOH
HOHCÐHOH
HOHGUHOH
HOHGHHOH
HOHGÐHOH
HOHSUHOH
HOHSHHOH
HOHSÐHOH
HOHEUHOH
HOHEHHOH
HOHEÐHOH
HOHFUHOH
HOHFHHOH
HOHFÐHOH
HOHLUHOH
HOHLHHOH
HOHLÐHOH
HOHT^{TU}HOH
HOHTHHOH
HOHTÐHOH
HOHZUHOH
HOHZHHOH
HOHZÐHOH

full round >full round
(DOQ^P)R L(CGOQ)
HOH^POHOH
HOHD^OHOH
HOHDCHOH
HOHDQHOH
HOHQOHOH
HOHQCHOH
HOHQQHOH

full > small
(DOQ^P)R L(S)

HOH^PSHOH
HOHDSHOH
HOHOSHOH
HOHQSHOH

(RBP)R L(CGOQ)
HOH^ROHOH
HOH^BOHOH
HOHP^OHOH

full > void
(DOQ^P)R L(WVYZXA)

HOHD^WHOH
HOH^PWHOH
HOHOWHOH
HOHQWHOH
HOH^PVHOH
HOHD^VHOH

HOHOVHOH
HOHQVHOH
HOHDYHOH
HOH^PYHOH
HOHOYHOH
HOHQYHOH
HOH^PZHOH
HOHDZHOH
HOHOZHOH
HOHQZHOH
HOH^PXHOH
HOHDXHOH
HOHOXHOH
HOHQXHOH
HOH^PAHOH
HOHDAHOH
HOHOAHOH
HOHQ^AHOH

(WVYZXAKR)R L(CGOQ)
HOHWOHOH
HOHVOHOH
HOHYOHOH
HOHZOHOH
HOH^XOHOH
HOHAOHOH
HOH^KOHOH
HOH^ROHOH

full>open
(DOQ)R L(TJSZ)

HOHDTHOH
HOH^PTHOH
HOHOTHOH
HOHQTHOH
HOHDTJOH
HOH^PJHOH
HOHOJHOH
HOHQJHOH
HOHDSHOH
HOH^PSHOH
HOHOSHOH
HOHQSHOH
HOH^DZHOH
HOH^PZHOH
HOH^OZHOH
HOHQZHOH

(CSEFLTZG)R L(CGOQ)
HOH^COHOH
HOH^SOHOH
HOHEOHOH
HOH^FOHOH
HOHLOHOH
HOHT^OHOH
HOHZOHOH
HOH^GOHOH

small>small
(RBP)R L(S)
HOH^RSHOH
HOHBSHOH

HOHPSHOH

small>void
(RBP)R L(WVYZXA)

HOHRW^{HOH}
HOHRV^{HOH}
HOHRY^{HOH}
HOHRZ^{HOH}
HOHRX^{HOH}
HOHRA^{HOH}
HOHRA^{HOH}

HOHBW^{HOH}
HOHBV^{HOH}
HOHBY^{HOH}
HOHBZ^{HOH}
HOHBX^{HOH}
HOHBA^{HOH}
HOHBA^{HOH}

HOHPW^{HOH}
HOHPV^{HOH}
HOHPY^{HOH}
HOHPZ^{HOH}
HOHPX^{HOH}
HOHPA^{HOH}
HOHPA^{HOH}

(WVYZXAKR)R L(S)

HOHWS^{HOH}
HOHV^{SHOH}
HOHY^{SHOH}
HOHZ^{SHOH}
HOHX^{SHOH}
HOHASH^{HOH}
HOHK^{SHOH}
HOHRS^{HOH}

small>open
(RBP)R L(TJSZ)

HOHRT^{HOH}
HOHRT^{HOH}
HOHRT^{HOH}
HOHRJ^{HOH}
HOHRJ^{HOH}
HOHRJ^{HOH}
HOHRS^{HOH}
HOHRS^{HOH}
HOHRZ^{HOH}
HOHRZ^{HOH}
HOHRZ^{HOH}

HOHB^{THOH}
HOHB^{THOH}
HOHB^{THOH}
HOHBJ^{HOH}

HOHBJ^{HOH}
HOHBJ^{HOH}
HOHBS^{HOH}
HOHBS^{HOH}
HOHBS^{HOH}
HOHBZ^{HOH}
HOHBZ^{HOH}
HOHBZ^{HOH}

HOHP^{THOH}
HOHP^{THOH}
HOHP^{THOH}
HOHPJ^{HOH}
HOHPJ^{HOH}
HOHPJ^{HOH}
HOHP^{SHOH}
HOHP^{SHOH}
HOHP^{SHOH}
HOHPZ^{HOH}
HOHPZ^{HOH}
HOHPZ^{HOH}

(CGSEFLTZ)R L(TJSZ)

HOHCS^{HOH}
HOHGS^{HOH}
HOHSS^{HOH}
HOHES^{HOH}
HOHFS^{HOH}
HOHLS^{HOH}
HOHT^{SHOH}
HOHZ^{SHOH}

HOHCT^{HOH}
HOHG^{THOH}
HOHST^{HOH}
HOHET^{HOH}
HOHF^{THOH}
HOHL^{THOH}
HOHT^{THOH}
HOHZ^{THOH}

HOHCJ^{HOH}
HOHGJ^{HOH}
HOHSJ^{HOH}
HOHEJ^{HOH}
HOHFJ^{HOH}
HOHLJ^{HOH}
HOHTJ^{HOH}
HOHZJ^{HOH}

HOHCZ^{HOH}
HOHGZ^{HOH}
HOHSZ^{HOH}
HOHEZ^{HOH}
HOHFZ^{HOH}
HOHLZ^{HOH}
HOHTZ^{HOH}
HOHZZ^{HOH}

void>void
(WVYZXA KR)R
L(WVYZXA)

HOHWWHOH HWWWH
HOHWVHOH HWVWH
HOHWYHOH HWYWH
HOHWZHOH HWZWH
HOHWXHOH HWXWH
HOHWAHOH HWAWH
HOHWÆHOH HWÆWH

HOHVWHOH HVVWH
HOHVVHOH HVVVH
HOHVVHOH HVVVH
HOHVZHOH HVZVH
HOHVXHOH HVXVH
HOHVAHOH HVAVH

HOHYWHOH HYWYH
HOHYVHOH HYVYH
HOHYWHOH 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

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
HOHFWHOH
HOHFWHOH
HOHFWHOH
HOHFWHOH
HOHFWHOH

HOHLWHOH
HOHLYHOH
HOHLVHOH
HOHLZHOH
HOHLXHOH
HOHLAHOH

HOHTWHOH HTWTH
HOHTYHOH HTYTH
HOHTVHOH HTVTH
HOHTZHOH HTZTH
HOHTXHOH HTXTH
HOHTAHOH HTATH

HOHZWHOH HZWZH
HOHZYHOH HZYZH
HOHZVHOH HZVZH
HOHZZHOH HZZZH
HOHZXHOH HZXZH
HOHZAHOH HZAZH

open>open
(CSEFLTZ)R L(TJZ)

HOHCTHOH
HOHCJHOH
HOHCSHOH
HOHCZHOH
HOHSTHOH
HOHSJHOH
HOHSSHOTH
HOHSZHOH
HOHETHOH
HOHEJHOH
HOHESHOTH
HOHEZHOH
HOHFTHOH
HOHFJHOH
HOHFSHOH
HOHFZHOH
HOHLTHOH
HOHLJHOH
HOHLSHOH
HOHLZHOH

HOHTTHOH
HOHTJHOH
HOHTSHOH
HOHTZHOH
HOHZTHOH
HOHZJHOH
HOHZSHOH
HOHZZHOH

UPPERCASE >
Lowercase

straight>straight

(HMINUJ)R
L(ublijphmnr)

nonHnnono
nonNnnono
nonUnnnono
nonHunono
nonNunono
nonUunono
nonHbnnono
nonNbnnono
nonUbnono
nonHjnnono
nonNjnnono
nonUjnnono
nonHinono
nonNinono
nonUinono

nonHjnnono
nonNjnnono
nonUjnnono
nonHpnono
nonNpnono
nonUpnono
nonHhnnono
nonNhnono
nonUhnono

straight>full round
(HMINUJ)R L (ceodqgđ)

nonHonono
nonNonono
nonUonono
nonHdnono
nonNdnono
nonUdnono
nonHgnono
nonNgnono
nonUgnono
nonHđnnono
nonNđnnono
nonUđnnono

(DOQ)R L(ublijphmnr)

nonFunono
nonFbnono
nonFjnnono
nonFnnonono

nonFpnnonono
nonDunnonono
nonDbnnono
nonDjnnonono
nonDnnnonono
nonDpnnonono
nonOunnonono
nonObnnono
nonOjnnonono
nonOnnnono
nonOpnnonono
nonQunnonono
nonQbnnono
nonQjnnonono
nonQnnnonono
nonQpnnonono

straight>small round
(HMNUIJ)R L(as)

nonHanono
nonNanono
nonUanono
nonHsnnonono
nonNsnnonono
nonUsnnonono

(RBPG)R
L(ublijphmnr)

nonRunono
nonRbnnono

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)		
nonFunono		nonR ^o nono	nonOwnono
nonF ^b nono	nonD ^o nono	nonR ^d nono	nonOynono
nonF ^j nono	nonD ^d nono	nonR ^g nono	nonOznono
nonF ⁿ nono	nonD ^g nono	nonR ^đ nono	nonOxnono
nonF ^p nono	nonD ^đ nono		
	nonF ^o nono	nonBonono	nonQvnono
nonLunono	nonF ^d nono	nonB ^d nono	nonQwnono
nonL ^b nono	nonF ^g nono	nonB ^g nono	nonQynono
nonL ^j nono	nonF ^đ nono	nonB ^đ nono	nonQznono
nonL ⁿ nono	nonOonono		nonQxnono
nonL ^p nono	nonO ^d nono	nonPonono	
	nonO ^g nono	nonP ^d nono	(WVYZXAKR)R L
nonT ^o nono	nonO ^đ nono	nonP ^g nono	(ceodqgđ)
nonT ^b nono	nonQ ^o nono	nonP ^đ nono	
nonT ^j nono	nonQ ^d nono		nonWonono
nonT ⁿ nono	nonQ ^g nono	full > void	nonWdnono
nonT ^p nono	nonQ ^đ nono	(DOQ)R L(vwyzx)	nonWgnono
			nonWđnono
nonZunono	full > small	nonDvnono	nonVonono
nonZ ^b nono	(DOQ)R L(as)	nonDwnono	nonVdnono
nonZ ^j nono		nonDynono	nonV ^g nono
nonZ ⁿ nono	nonDanono	nonD ^z nono	nonVđnono
nonZ ^p nono	nonDsnono	nonDxnono	
	nonF ^a nono		nonY ^o nono
nonZhnono	nonF ^s nono	nonF ^v nono	nonYdnono
nonZhnono	nonOanono	nonF ^w nono	nonYgnono
nonZhnono	nonOsnono	nonF ^y nono	nonYđnono
nonZhnono	nonQ ^a nono	nonF ^z nono	
nonZhnono	nonQsnono	nonF ^x nono	nonZ ^o nono
			nonZdnono
full round >full round	(RBP)R L (ceodqg)	nonOvnono	nonZgnono

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

Lowercase >
UPPERCASE

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

nonnnOnono
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)

nonnnSnono
nonqSnono
noniSnono
nonjSnono
nonuSnono
nonaSnono

(s)R
L(HMNUIKLPRBEF')

nonsHnono
nonsUnono

straight>void
(udlijgqhmna)R
L(WVYZXA)

nonnnWnono
nonqWnono
noniWnono
nonjWnono
nonuWnono
nonaWnono

nonnnVnono

nonqVnono
noniVnono
nonjVnono
nonuVnono
nonaVnono

nonnnYnono
nonqYnono
noniYnono
nonjYnono
nonuYnono
nonaYnono

nonnnZnono
nonqZnono
noniZnono
nonjZnono
nonuZnono
nonaZnono

nonnnXnono
nonqXnono
noniXnono
nonjXnono
nonuXnono
nonaXnono

nonnnAnono
nonqAnono
noniAnono
nonjAnono
nonuAnono

nonaAnono

(kvwyxz)R
L(HMNUIKLPRBEFÐ)

nonkHnono
nonkUnono
nonkÐnono
nonvHnono
nonvUnono
nonvÐnono
nonwHnono
nonwUnono

nonwÐnono
nonyHnono
nonyUnono
nonyÐnono
nonzHnono
nonzUnono
nonzÐnono
nonxHnono
nonxUnono
nonxÐnono

straight>open
(udlijgqhmna)R L(TJS)

nonnnTnono
nonqTnono
noniTnono
nonjTnono
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)

nonsSnono

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)

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
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
nonzJnono
nonxJnono

nonkSnono
nonvSnono
nonwSnono
nonySnono
nonzSnono
nonxSnono

(ctfr) R L(WVYZXA)

noncWnono
nontWnono
nonfWnono
nonrWnono

noncVnono
nontVnono
nonfVnono
nonrVnono

noncYnono
nontYnono

nonfYnono
nonrYnono

noncZnono
nontZnono
nonfZnono
nonrZnono

noncXnono
nontXnono
nonfXnono
nonrXnono

noncAnono
nontAnono
nonfAnono
nonrAnono

open>open
(ctfr) R L(TJS)

noncTnono
nontTnono
nonfTnono
nonrTnono

noncJnono
nontJnono
nonfJnono
nonrJnon

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)		009600
119111		110011	008000
110111	117111	110611	008600
	112111	119011	
		119611	

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	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		

