

LOWERCASE

straight>straight
(udlijqhmna)R
L(ublijphmnr)

nonnnnnono
nonnnunono
nonnbnono
nonnninono
nonnnjnono
nonnpnnono
nonuunono
nonubnono
nonuinono
nonujnono
nonupnono
nonunnnono
nonqunono
nonqbnono
nonqinono
nonqjnono
nonqpnnono
nonqnnono
nonjunono
nonjbnono
nonjinono
nonjjnono
nonjpnnono
nonjnnono
nonnnunono
nonnbnono

nonnninono
nonnnjnono
nonnpnnono
nonnnnnono
nonnaunono
nonnabnono
nonnainono
nonnajnono
nonnapnono
nonnannono
nonniunono
nonnibnono
nonniinono
nonnijnono
nonnipnono
noninnnono

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

nonniðnono
nonnnonono
nonnngnono
nonnñnono
nonononono

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

straight>small round
(udlijqhmna)R L(as)
nonuanono
nonusnono
nonqanono
nonqsnono
nonjanono
nonjsnono
nonnaanono
nonasnono
nonianono
nonisnono
nonlanono
nonlsnono
nonnnanono
nonnnsnono

(s)R L(ublijphmnr)
nonsunono

nonsbnono
nonsnnonon
nonsjnnonon
nonslnnonon

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
non**rb**nono

non**k**unono
non**k**lnono
non**k**jnono
nonkpnono
non**k**bnono

nonvunono
non**v**lnono
non**v**jnono
nonvpnono
non**v**bnono

non**z**unono
non**z**lnono
nonzjnono
nonzpnono
non**z**bnono

nonxunono
non**x**lnono

nonxjnono
nonxpnono
nonxbnono

straight>open
(udlijgqhmna)R L(afts)
nonufnono
nonuanono
non**u**tnono
nonusnono
nonqfnono
nonqanono
non**q**tnono
nonqsnono
nonjfnono
nonjanono
nonjtnono
non**j**snono
nonnfnon
non**n**anon
nonntnon
non**n**snon

(ctfre) R L(ublijphmnr)

noncunono
non**c**bnono
noncnonon
non**c**jnonon
nonclonon
noncpnonon
non**t**unono

non**t**bnono
nontnonon
nontjnonon
non**t**lonon
nontpnonon
non**f**unono
nonfbnono
non**f**nnonon
nonfjnonon
non**f**lonon
nonfpnonon
nonrunono
nonrbnono
nonrnonon
nonrjnonon
nonrlonon
nonrpnnonon
non**e**unono
non**e**bnono
nonenenonon
nonejnonon
nonelonon
nonepnnonon

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

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

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
nonsynonon
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
newnnonon
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

HOH^UH^HHOH
HOHUMHOH
HOHUNHOH
HOH^UHOH
HOHUIHOH
HOHUKHOH
HOHULHOH
HOH^U^ÐHOH

HOHI^HHOH
HOHIMHOH
HOHINHOH
HOHIUHOH
HOHIIHOH
HOHIKHOH
HOHIL^HHOH
HOHI^ÐHOH

HOHJ^HHOH
HOHJMHOH
HOHJNHOH
HOHJUHOH
HOHJIHOH
HOHJKHOH
HOHJLHOH
HOHJ^ÐHOH

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

(DOQ^F)R
L(HMNUIKLP^RBE^FÐ)
HOHO^UHOH
HOHQ^UHOH
HOHD^UHOH
HOH^F^UHOH
HOHO^HHOH
HOHQ^HHOH
HOHD^HHOH
HOH^F^HHOH
HOH^O^ÐHOH
HOHQ^ÐHOH
HOHD^ÐHOH
HOH^F^ÐHOH

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

(RBP)R

L(HMNUIKLP^RBE^FÐ)
HOHR^HHOH
HOHRNHOH
HOHRUHOH
HOHR^ÐHOH
HOHB^HHOH
HOHBNHOH
HOHBUHOH
HOHB^ÐHOH
HOHP^HHOH
HOHPNHOH
HOHP^UHOH
HOH^F^ÐHOH

straight>void
(HMNUIJ)R L(WVYZXA)
HOHHVHOH
HOHNVHOH
HOHUVHOH
HOHHW^HHOH
HOHNW^HHOH
HOHUW^HHOH
HOHHYHOH
HOHNYHOH
HOHUYHOH
HOHHZHOH
HOHNZHOH
HOHUZHOH
HOHHXHOH
HOHNXHOH
HOHUXHOH

HOHHAHOH
HOHNAHOH
HOHUAHOH

(WVYZXAKR)R
L(HMNUIKLP^RBE^F)
HOHW^UHOH
HOHW^HHOH
HOHV^UHOH
HOHV^HHOH
HOHY^UHOH
HOHY^HHOH
HOHZ^UHOH
HOHZ^HHOH
HOHX^UHOH
HOHX^HHOH
HOHA^UHOH
HOHA^HHOH
HOHK^UHOH
HOHK^HHOH
HOHRUHOH
HOHR^HHOH

straight>open
(HMNUIJ)R L(TJS)
OHOHTHOH
OHONTHOH
OHOUTHOH
OHOHJHOH
OHON^JHOH
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^{DW}HOH
HOH^PWHOH
HOHOWHOH
HOHQWHOH
HOH^PVHOH
HOHD^{DV}HOH

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^{DZ}HOH
HOH^PZHOH
HOH^{OZ}HOH
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)

HOHWSHOH
HOHVSHOH
HOHYSHOH
HOHZSHOH
HOHXSHOH
HOHASHOH
HOHKSHOH
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}

HOHBTHOH
HOHBTHOH
HOHBTHOH
HOHBJHOH

HOHBJHOH
HOHBJHOH
HOHBSHOH
HOHBSHOH
HOHBSHOH
HOHBZHOH
HOHBZHOH
HOHBZHOH

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)

HOHCSHOH
HOHGSHOH
HOHSSHOH
HOHES^{HOH}
HOHFS^{HOH}
HOHLSHOH
HOHTS^{HOH}
HOHZS^{HOH}

HOHCTHOH
HOHGTHOH
HOHSTHOH
HOHETHOH
HOHFTHOH
HOHLTHOH
HOHTTHOH
HOHZTHOH

HOHCJHOH
HOHGJHOH
HOHSJHOH
HOHEJHOH
HOHFJHOH
HOHLJHOH
HOHTJHOH
HOHZJ^{HOH}

HOHCZHOH
HOHGZHOH
HOHSZHOH
HOHEZ^{HOH}
HOHFZHOH
HOHLZHOH
HOHTZHOH
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 HYYWH
HOHYZHOH HYZYH
HOHYXHOH HXYXH
HOHYAHOH HYAYH

HOHZWHOH HZWZH
HOHZVHOH HZVZH
HOHZYHOH HYZZH
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
HOHFXHOH
HOHFAHOH

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
nonHpnnono
nonNpnnono
nonUpnnono
nonHhnnono
nonNhnnono
nonUhnnono

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

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

(DOQ)R L(ublijphmnr)

nonFunono
nonFbnnono
nonFjnnono
nonFnnono

nonFpnnono
nonDunono
nonDbnnono
nonDjnnono
nonDnnono
nonDpnnono
nonOunono
nonObnnono
nonOjnnono
nonOnnnono
nonOpnnono
nonQunono
nonQbnnono
nonQjnnono
nonQnnono
nonQpnnono

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

nonHanono
nonNanono
nonUanono
nonHsnnono
nonNsnnono
nonUsnnono

(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)
		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
nonAonono		nonZdnono	nonPvnono	small>open	nonTsnono
nonAdnono	nonConono	nonZgnono	nonPwnono	(RBPG)R L(fts)	nonTanono
nonAgnono	nonCdnono	nonZǎnono	nonPynono		nonZsnono
nonAǎnono	nonCgnono		nonPznono	nonRfnono	nonZanono
	nonCǎnono	small>small (RBPG)R L(as)	nonPxnono	nonRtnono	
nonKonono				nonRsnono	void>void (WVYZXAKR)R L(vwyzx)
nonKdnono	nonSonono	nonRanono	nonGvnono		
nonKgnono	nonSdnono	nonRsnono	nonGwnono	nonBfnono	
nonKǎnono	nonSgnono	nonBanono	nonGynono	nonBtnono	
	nonSǎnono	nonBsnono	nonGznono	nonBsnono	nonWvnono
nonRonono		nonPanono	nonGxnono		nonWwnono
nonRdnono	nonEonono	nonPsnono		nonPfnono	nonWynono
nonRgnono	nonEdnono	nonGanono	(WVYZXAKR)R L(as)	nonPtnono	nonWznono
nonRǎnono	nonEgnono	nonGsnono		nonPsnono	nonWxnono
	nonEǎnono				
full>open (DOQ)R L(fts)			nonWanono	nonGfnono	nonVvnono
	nonFonono		nonWsnono	nonGtnono	nonVwnono
nonDfnono	nonFdnono	small>void (RBPG)R L(vwyzx)	nonVanono	nonGsnono	nonVynono
nonDtnono	nonFgnono		nonVsnono		nonVznono
	nonFǎnono		nonYanono	(CSEFLTZ)R	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	nonpĐnono	nonqVnono	nonaAnono
nonTsnono	nonbĐnono	noniVnono	
nonZfnono	nonđĐnono	nonjVnono	(kvwyx)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		noniZnono	nonyHnono
	nonSnono	nonjZnono	nonyUnono
	nonSUnono	nonuZnono	nonyĐnono
		nonaZnono	nonzHnono
			nonzUnono
			nonzĐnono
(bpo)R	straight>void	nonnXnono	nonxHnono
L(HMNUIKLPRBEFĐ)	(udlijgqhmna)R L(WVYZXA)	nonqXnono	nonxUnono
		noniXnono	nonxĐnono
nonoHnono		nonjXnono	
nonpHnono	nonnWnono	nonuXnono	straight>open (udlijgqhmna)R L(TJS)
nonbHnono	nonqWnono	nonaXnono	
nonđHnono	noniWnono		
nonoUnono	nonjWnono	nonnAnono	nonnTnono
nonpUnono	nonuWnono	nonqAnono	nonqTnono
nonbUnono	nonaWnono	noniAnono	noniTnono
nonđUnono		nonjAnono	nonjTnono
nonoĐnono	nonnVnono	nonuAnono	nonuTnono

nonaTnono		nonďYnono	(ctfr) R L(CGOQ)
	nonoOonono	nonoZnono	
nonnJnono	nonpOonono	nonpZnono	noncOonono
nonqJnono	nonbOonono	nonbZnono	nonfOonono
noniJnono		nonďZnono	nontOonono
nonjJnono	full > small	nonoXnono	nonrOonono
nonuJnono	(bpo)R L(S)	nonpXnono	
nonaJnono		nonbXnono	small>small
	nonoSnono	nonďXnono	(s)R L(S)
nonnSnono	nonpSnono	nonoAnono	
nonqSnono	nonbSnono	nonpAnono	nonsSnono
noniSnono		nonbAnono	
nonjSnono	(as) R L(CGOQ)	nonďAnono	small>void
nonuSnono			(s)R L(WVYZXA)
nonaSnono	nonaOonono	full>open	
	nonsOonono	(bpoď)R L(TJS)	nonsWnono
(ctfr) R			nonsVnono
L(HMNUIKLPRBEF)	full > void	nonoTnono	nonsYnono
	(bpoď)R L(WVYZXA)	nonpTnono	nonsZnono
noncHnono	(kvwyzx)R L(CGOQ)	nonbTnono	nonsXnono
noncUnono		nonďTnono	nonsAnono
nonfHnono	nonoWnono		
nonfUnono	nonpWnono	nonoJnono	(kvwyzx)R L(S)
nontHnono	nonbWnono	nonpJnono	
nontUnono	nonďWnono	nonbJnono	nonkSnono
nonrHnono	nonoVnono	nonďJnono	nonvSnono
nonrUnono	nonpVnono		nonwSnono
	nonbVnono	nonoSnono	nonySnono
	nonďVnono	nonpSnono	nonzSnono
	nonoYnono	nonbSnono	nonxSnono
full round >full round	nonpYnono	nonďSnono	
(bpoe)R L(CGOQ)	nonbYnono		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) 117911 112911 117811	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		

