Table 1: Definition of categories and choices for grep

#	Category	Choice	
1	NormalChar - presence of any	NormalAlNum - presence of any	
1	literal character	alphabetic or numerical literal	
		(for instance "A", "z", or "5")	
		NormalPunct - presence of any	
		punctuation character (such as ":")	
	WordSymbol - presence of	YesWord - "\w" present	
2	"word" or "non-word"	NoWord - "\W" present	
	metacharacters		
3	DigitCrush al progence of "digit"	YesDigit - "\d" present	
	DigitSymbol - presence of "digit" or "non-digit" metacharacters	NoDigit - "\D" present	
	or non-digit metacharacters		
	SpaceSymbol - presence of any	YesSpace - "\s" present	
$ _4$	"whitespace" or "non-space"		
4	metacharacters	NoSpace - "\S" present	
	metacharacters		
		ALPHA - presence of [:ALPHA:]	
		UPPER - presence of [:UPPER:]	
		LOWER - presence of [:LOWER:]	
		DIGIT - presence of [:DIGIT:]	
		XDIGIT - presence of [:XDIGIT:]	
5	NamedSymbol - presence of a	SPACE - presence of [:SPACE:]	
	symbol from a character group	PUNCT - presence of [:PUNCT:]	
		ALNUM - presence of [:ALNUM:]	
		PRINT - presence of [:PRINT:]	
		GRAPH - presence of [:GRAPH:]	
		CNTRL - presence of [:CNTRL:]	
		BLANK - presence of [:BLANK:]	
6	AnyChar - presence of the "."	Dot - dot (".") present	
	metacharacter (matches any		
	character)		
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Table 1 Definition of categories and choices for grep (continued)

#	Table 1 Definition of categories an Category	Choice (continued)	
- 11-	Caucgory		
7	Range - presence of a pattern representing a character range	present (for example "[1-7]") UpcaseRange - uppercase letter range present (for example "[C-G]") LowcaseRange - lowercase letter	
8	Bracket - presence of patterns encompassed by [] or [^]	range present (such as "[s-w]") NormalBracket - "[]" pattern present CaretBracket - [^] pattern present	
9	Iteration - presence of patterns that contain iterator symbols	Qmark - presence of the question mark metacharacter ("?"), which matches 0 or 1 iteration Star - presence of the star metacharacter ("*"), matching zero or more iterations Plus - presence of the plus metacharacter ("+"), matching one or more iterations Repminmax - presence of minmax repetition form: for example, "{2, 3}" matches lines containing "aa" or "aaa"	
10	Parentheses - used to group patterns for repetition, also "backreferencing"	NormParen - presence of a pattern surrounded by parentheses Backref - presence of a pattern with normal parentheses and a back reference	
11	Line - presence of special characters relating to line boundaries	BegLine - presence of ("^") (matches beginning of line) EndLine - presence of ("\$") (matches end of line) BegEndLine - presence of ("^""\$") (matches beginning and end of line)	
12	Word - presence of sequences that match word beginnings or ends	BegWord - presence of a ("\<") metacharacter (matches word beginning) EndWord - presence of a ("\>") metacharacter (matches word end) BegEndWord - presence of a ("\<" "\>") pattern (matches word end)	
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Table 1 Definition of categories and choices for grep (continued)

	Table 1 Definition of categories an	
#	Category	Choice
		YesEdgeBeg - presence of a "\b"
	_	metacharacter (sequence must lie
13	Edge - presence of sequences	on a word edge at the beginning
10	that match word boundaries	- for example "\babc" matches
		"abcde" but not "xabc")
		YesEdgeEnd - presence of the
		"\b" metacharacter (sequence
		must lie on a word edge at the end
		- for example "abc\b" matches
		"12abc" but not "abc12")
		YesEdgeBegEnd - presence of
		"\b" "\b" pattern - sequence
		must lie on a word edge at the be-
		ginning and the end (for example
		"\babc\b" matches "abc" only)
		NoEdgeBeg - presence of "\B"
		metacharacter - sequence must
		not lie on a word edge at
		the beginning (for example,
		"\Babc" matches "xabce" but
		not "abcde").
		NoEdgeEnd - presence of "\B"
		metacharacter - sequence must
		not lie on a word edge at the end
		(for example, "abc\B" matches
		"xabce" but not "xabc").
		NoEdgeBegEnd - presence of
		"\B" "\B" - sequence must
		not lie on a word edge at the be-
		ginning and the end (for example,
		"\Babc\B" matches "xabce" but
	G. 1: 1: . 1: 1	not "abcdeabc").
14	Combine - combining multiple	Concatenation - presence of a se-
	patterns	quence of tokens (which must all
		appear in sequence in the text
		to match - for example, "ab"
		matches "abx" or "cab" but not
		"aaa", "axb", or "bax")
		Alternative - presence of two
		tokens separated by the " "
		metacharacter (presence of either
		token will result in a match - for
		instance "a b" matches "ast" or
		byz")
		Dyz)