REGULAR EXPRESSIONS

BASIC IDEA

- regular expression: defines a set of one or more strings of characters
- simple string of characters -> represents itself
- special/metacharacters -> characters that do not represent themselves
- add in special characters -> match a pattern which can represent many strings

SPECIAL CHARACTERS

- We'll focus on ERE (extneded regular expression syntax)
- delimiter:
 - marks beginning/end of expression,
 - often /
 - some utilities let you use other delimiters

Char	Use	Example
	escape special character	a\+b matches "a+b"
•	wildcard - match any character	.ord mathces "word", "cord"
	character class	[bB] ob matches "bob", "Bob"
^	beginning of line	^B matches "B" at start of line
\$	end of line	! \$ matches "!" ending line

Char	Use	Example
*	match 0 or more occurences	bo* matches "b", "booooo"
?	match 0 or 1 occurrences	bo? matches "b", "bo"
+	match 1 or more occurences	bo+ matches "bo", "boooo"
{ n }	match exactly n occurences	bo{2} matches "boo"
{n,m}	match between n and m occurences	bo{1,2} matches "bo", "boo"

Char Use Example () group characters (da) * matches "da", "dada" match previous or hilbye match "hi", "bye"