Assignment 9

Select the following packages

```
library(stringr)
library(babynames)
library(dplyr)

##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
## filter, lag

## The following objects are masked from 'package:base':
##
## intersect, setdiff, setequal, union
```

Problem 1

```
str_subset(words, "^y")
                                 "yesterday" "yet"
## [1] "year"
                    "yes"
                                                           "you"
                                                                        "young"
str_subset(words, "^y", negate = TRUE)
                        "able"
                                        "about"
##
     [1] "a"
                                                       "absolute"
                                                                      "accept"
##
     [6] "account"
                         "achieve"
                                        "across"
                                                       "act"
                                                                      "active"
                         "add"
                                        "address"
                                                       "admit"
##
    [11] "actual"
                                                                      "advertise"
                         "afford"
                                        "after"
##
    [16] "affect"
                                                       "afternoon"
                                                                      "again"
                         "age"
                                        "agent"
                                                       "ago"
                                                                      "agree"
##
    [21] "against"
                         "all"
                                        "allow"
##
    [26] "air"
                                                       "almost"
                                                                      "along"
##
    [31] "already"
                         "alright"
                                        "also"
                                                       "although"
                                                                      "always"
##
    [36] "america"
                        "amount"
                                        "and"
                                                       "another"
                                                                      "answer"
    [41] "any"
                         "apart"
                                        "apparent"
                                                       "appear"
                                                                      "apply"
                                                       "area"
##
    [46] "appoint"
                         "approach"
                                        "appropriate"
                                                                      "argue"
##
    [51] "arm"
                         "around"
                                        "arrange"
                                                       "art"
                                                                      "as"
##
    [56] "ask"
                        "associate"
                                        "assume"
                                                       "at"
                                                                      "attend"
    [61] "authority"
                        "available"
                                        "aware"
                                                       "away"
                                                                      "awful"
   [66] "baby"
                        "back"
                                        "bad"
                                                       "bag"
##
                                                                      "balance"
```

##	[71]	"ball"	"bank"	"bar"	"base"	"basis"
##	[76]	"be"	"bear"	"beat"	"beauty"	"because"
##	[81]	"become"	"bed"	"before"	"begin"	"behind"
##	[86]	"believe"	"benefit"	"best"	"bet"	"between"
##	[91]	"big"	"bill"	"birth"	"bit"	"black"
##	[96]	"bloke"	"blood"	"blow"	"blue"	"board"
##	[101]	"boat"	"body"	"book"	"both"	"bother"
##	[106]	"bottle"	"bottom"	"box"	"boy"	"break"
##	[111]	"brief"	"brilliant"	"bring"	"britain"	"brother"
##	[116]	"budget"	"build"	"bus"	"business"	"busy"
##	[121]	"but"	"buy"	"by"	"cake"	"call"
##	[126]	"can"	"car"	"card"	"care"	"carry"
##	[131]	"case"	"cat"	"catch"	"cause"	"cent"
##	[136]	"centre"	"certain"	"chair"	"chairman"	"chance"
##	[141]	"change"	"chap"	"character"	"charge"	"cheap"
##	[146]	"check"	"child"	"choice"	"choose"	"Christ"
##	[151]	"Christmas"	"church"	"city"	"claim"	"class"
##	[156]	"clean"	"clear"	"client"	"clock"	"close"
##	[161]	"closes"	"clothe"	"club"	"coffee"	"cold"
##	[166]	"colleague"	"collect"	"college"	"colour"	"come"
##	[171]	"comment"	"commit"	"committee"	"common"	"community"
##	[176]	"company"	"compare"	"complete"	"compute"	"concern"
##	[181]	"condition"	"confer"	"consider"	"consult"	"contact"
##	[186]	"continue"	"contract"	"control"	"converse"	"cook"
##	[191]	"copy"	"corner"	"correct"	"cost"	"could"
##	[196]	"council"	"count"	"country"	"county"	"couple"
##	[201]	"course"	"court"	"cover"	"create"	"cross"
##	[206]	"cup"	"current"	"cut"	"dad"	"danger"
ππ	[200]	cup	Cullent	Cut		danger
##						
##	[211]	"date"	"day"	"dead"	"deal"	"dear"
##	[211] [216]	"date" "debate"	"day" "decide"	"dead" "decision"	"deal" "deep"	"dear" "definite"
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## ## ## ##	[211] [216] [221] [226] [231] [236]	"date" "debate" "degree" "detail" "dinner" "do"	"day" "decide" "department" "develop" "direct" "doctor"	"dead" "decision" "depend" "die" "discuss" "document"	"deal" "deep" "describe" "difference" "district" "dog"	"dear" "definite" "design" "difficult" "divide" "door"
## ## ## ## ##	[211] [216] [221] [226] [231] [236] [241]	"date" "debate" "degree" "detail" "dinner" "do" "double"	"day" "decide" "department" "develop" "direct" "doctor" "doubt"	"dead" "decision" "depend" "die" "discuss" "document" "down"	"deal" "deep" "describe" "difference" "district" "dog" "draw"	"dear" "definite" "design" "difficult" "divide" "door" "dress"
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######################################	[211] [216] [221] [226] [231] [236] [241] [246] [251] [256] [261] [262] [271] [276] [281] [286] [291] [296] [301]	"date" "debate" "degree" "detail" "dinner" "do" "double" "drink" "during" "eat" "eight" "else" "english" "equal" "ever" "except" "expense" "eye" "family"	"day" "decide" "department" "direct" "doctor" "doubt" "drive" "each" "economy" "either" "employ" "enjoy" "especial" "every" "excuse" "experience" "face"	"dead" "decision" "depend" "die" "discuss" "document" "down" "drop" "early" "educate" "elect" "encourage" "enough" "europe" "evidence" "exercise" "explain" "fact" "farm"	"deal" "deep" "describe" "difference" "district" "dog" "draw" "dry" "east" "effect" "electric" "end" "enter" "even" "exact" "exist" "express" "fair" "fast"	"dear" "definite" "design" "difficult" "divide" "door" "dress" "due" "easy" "egg" "eleven" "engine" "environment" "evening" "example" "extra" "fall" "father"
######################################	[211] [216] [221] [226] [231] [236] [241] [246] [251] [261] [261] [271] [276] [281] [286] [291] [296] [301] [306]	"date" "debate" "degree" "detail" "dinner" "do" "double" "drink" "during" "eat" "eight" "else" "english" "equal" "ever" "except" "except" "eye" "family" "favour"	"day" "decide" "develop" "direct" "doctor" "doubt" "drive" "each" "economy" "either" "employ" "enjoy" "especial" "every" "excuse" "experience" "face" "far" "feed"	"dead" "decision" "depend" "die" "discuss" "document" "down" "drop" "early" "educate" "elect" "encourage" "enough" "europe" "evidence" "exercise" "explain" "fact" "farm"	"deal" "deep" "difference" "difference" "district" "dog" "draw" "dry" "east" "effect" "electric" "end" "enter" "even" "exact" "exist" "express" "fair" "fast" "few"	"dear" "definite" "design" "difficult" "divide" "door" "dress" "due" "easy" "egg" "eleven" "engine" "environment" "evening" "example" "expect" "extra" "fall" "father" "field"
######################################	[211] [216] [221] [226] [231] [236] [241] [246] [251] [256] [261] [266] [271] [276] [281] [286] [291] [296] [301] [306] [311]	"date" "debate" "degree" "detail" "dinner" "do" "double" "drink" "during" "eat" "eight" "else" "english" "equal" "ever" "except" "except" "expense" "family" "favour"	"day" "decide" "department" "develop" "direct" "doctor" "doubt" "each" "economy" "either" "employ" "enjoy" "especial" "every" "excuse" "experience" "face" "figure"	"dead" "decision" "depend" "die" "discuss" "document" "down" "drop" "early" "educate" "elect" "encourage" "enough" "europe" "evidence" "exercise" "explain" "fact" "farm" "fieel" "file"	"deal" "deep" "difference" "difference" "district" "dog" "draw" "dry" "east" "effect" "electric" "end" "enter" "even" "exact" "exist" "express" "fair" "fast" "few" "fill"	"dear" "definite" "difficult" "divide" "door" "dress" "due" "easy" "egg" "eleven" "engine" "environment" "evening" "example" "expect" "extra" "fall" "father" "field" "film"
######################################	[211] [216] [221] [226] [231] [236] [241] [251] [256] [261] [266] [271] [276] [281] [286] [291] [296] [301] [306] [311] [316]	"date" "debate" "degree" "detail" "dinner" "do" "double" "drink" "during" "eat" "eight" "else" "english" "equal" "ever" "except" "except" "family" "fight" "final"	"day" "decide" "department" "develop" "direct" "doctor" "doubt" "each" "economy" "either" "employ" "enjoy" "especial" "every" "excuse" "excuse" "face" "face" "figure" "finance"	"dead" "decision" "depend" "die" "discuss" "document" "down" "drop" "early" "educate" "elect" "encourage" "enough" "europe" "evidence" "exercise" "explain" "fact" "farm" "fieel" "file" "find"	"deal" "deep" "difference" "difference" "district" "dog" "draw" "dry" "east" "effect" "electric" "end" "enter" "even" "exact" "exist" "express" "fair" "fast" "few"	"dear" "definite" "design" "difficult" "divide" "door" "dress" "due" "easy" "egg" "eleven" "engine" "environment" "evening" "example" "expect" "extra" "fall" "father" "field"
######################################	[211] [216] [221] [226] [231] [236] [241] [251] [256] [251] [266] [271] [276] [281] [286] [291] [296] [301] [306] [311] [316] [321]	"date" "debate" "degree" "detail" "dinner" "do" "double" "drink" "during" "eat" "eight" "else" "english" "equal" "ever" "except" "except" "family" "fight" "final" "fire"	"day" "decide" "department" "develop" "direct" "doctor" "doubt" "each" "economy" "either" "employ" "enjoy" "especial" "every" "excuse" "face" "face" "figure" "finance" "first"	"dead" "decision" "depend" "die" "discuss" "document" "down" "drop" "early" "educate" "elect" "encourage" "enough" "europe" "evidence" "exercise" "explain" "fact" "farm" "fieel" "file" "find" "fish"	"deal" "deep" "describe" "difference" "district" "dog" "draw" "dry" "east" "effect" "electric" "end" "even" "exact" "exist" "express" "fair" "fast" "fiew" "fill" "fine" "fit"	"dear" "definite" "design" "difficult" "divide" "door" "dress" "due" "easy" "egg" "eleven" "engine" "environment" "evening" "example" "extra" "fall" "father" "film" "finish" "five"
#############################	[211] [216] [221] [226] [231] [236] [241] [251] [256] [251] [266] [271] [276] [286] [291] [296] [301] [306] [311] [316] [321] [326]	"date" "debate" "degree" "detail" "dinner" "do" "double" "drink" "during" "eat" "eight" "else" "english" "equal" "ever" "except" "expense" "eye" "family" "fight" "final" "fire" "flat"	"day" "decide" "department" "develop" "direct" "doctor" "doubt" "each" "economy" "either" "employ" "enjoy" "especial" "every" "excuse" "face" "far" "feed" "figure" "first" "floor"	"dead" "decision" "depend" "die" "discuss" "document" "down" "drop" "early" "educate" "elect" "encourage" "enough" "europe" "exercise" "exercise" "explain" "fact" "file" "file" "file" "fish" "fly"	"deal" "deep" "difference" "difference" "district" "dog" "draw" "dry" "east" "effect" "electric" "end" "enter" "even" "exact" "exist" "express" "fair" "fast" "fine" "fill" "fine" "fit" "follow"	"dear" "definite" "design" "difficult" "divide" "door" "dress" "due" "easy" "egg" "eleven" "engine" "environment" "evening" "example" "extra" "fall" "father" "field" "fiim" "five" "food"
######################################	[211] [216] [221] [226] [231] [236] [241] [246] [251] [256] [271] [276] [271] [286] [291] [296] [301] [306] [311] [316] [321] [326] [331]	"date" "debate" "degree" "detail" "dinner" "do" "double" "drink" "during" "eat" "eight" "else" "english" "equal" "ever" "except" "except" "family" "fight" "fight" "fire" "flat" "floot"	"day" "decide" "department" "develop" "direct" "doctor" "doubt" "drive" "each" "economy" "either" "employ" "enjoy" "especial" "every" "excuse" "face" "far" "feed" "figure" "first" "floor" "for"	"dead" "decision" "depend" "die" "discuss" "document" "down" "drop" "early" "educate" "elect" "encourage" "enough" "europe" "exercise" "explain" "fact" "farm" "feel" "file" "fish" "fly" "force"	"deal" "deep" "describe" "difference" "district" "dog" "draw" "dry" "east" "effect" "electric" "end" "enter" "exact" "exist" "express" "fair" "fast" "few" "fill" "fine" "follow" "forget"	"dear" "definite" "design" "difficult" "divide" "door" "dress" "due" "easy" "egg" "eleven" "engine" "environment" "evening" "example" "expect" "extra" "fall" "father" "field" "film" "five" "food" "form"
##################################	[211] [216] [221] [226] [231] [236] [241] [246] [251] [256] [271] [276] [271] [286] [291] [296] [301] [306] [311] [316] [321] [326] [331]	"date" "debate" "degree" "detail" "dinner" "do" "double" "drink" "during" "eat" "eight" "else" "english" "equal" "ever" "except" "expense" "eye" "family" "fight" "final" "fire" "flat"	"day" "decide" "department" "develop" "direct" "doctor" "doubt" "each" "economy" "either" "employ" "enjoy" "especial" "every" "excuse" "face" "far" "feed" "figure" "first" "floor"	"dead" "decision" "depend" "die" "discuss" "document" "down" "drop" "early" "educate" "elect" "encourage" "enough" "europe" "exercise" "exercise" "explain" "fact" "file" "file" "file" "fish" "fly"	"deal" "deep" "difference" "difference" "district" "dog" "draw" "dry" "east" "effect" "electric" "end" "enter" "even" "exact" "exist" "express" "fair" "fast" "fine" "fill" "fine" "fit" "follow"	"dear" "definite" "design" "difficult" "divide" "door" "dress" "due" "easy" "egg" "eleven" "engine" "environment" "evening" "example" "extra" "fall" "father" "field" "fiim" "five" "food"

##	[341]	"friday"	"friend"	"from"	"front"	"full"
##	[346]	"fun"	"function"	"fund"	"further"	"future"
##	[351]	"game"	"garden"	"gas"	"general"	"germany"
##	[356]	"get"	"girl"	"give"	"glass"	"go"
##	[361]	"god"	"good"	"goodbye"	"govern"	"grand"
##	[366]	"grant"	"great"	"green"	"ground"	"group"
##	[371]	"grow"	"guess"	"guy"	"hair"	"half"
##	[376]	"hall"	"hand"	"hang"	"happen"	"happy"
##	[381]	"hard"	"hate"	"have"	"he"	"head"
##	[386]	"health"	"hear"	"heart"	"heat"	"heavy"
##	[391]	"hell"	"help"	"here"	"high"	"history"
##	[396]	"hit"	"hold"	"holiday"	"home"	"honest"
##	[401]	"hope"	"horse"	"hospital"	"hot"	"hour"
##	[406]	"house"	"how"	"however"	"hullo"	"hundred"
##	[411]	"husband"	"idea"	"identify"	"if"	"imagine"
##	[416]	"important"	"improve"	"in"	"include"	"income"
##	[421]	"increase"	"indeed"	"individual"	"industry"	"inform"
##	[426]	"inside"	"instead"	"insure"	"interest"	"into"
##	[431]	"introduce"	"invest"	"involve"	"issue"	"it"
##	[436]	"item"	"jesus"	"job"	"join"	"judge"
##	[441]	"jump"	"just"	"keep"	"key"	"kid"
##	[446]	"kill"	"kind"	"king"	"kitchen"	"knock"
##	[451]	"know"	"labour"	"lad"	"lady"	"land"
##	[456]	"language"	"large"	"last"	"late"	"laugh"
##	[461]	"law"	"lay"	"lead"	"learn"	"leave"
##	[466]	"left"	"leg"	"less"	"let"	"letter"
##	[471]	"level"	"lie"	"life"	"light"	"like"
##	[476]	"likely"	"limit"	"line"	"link"	"list"
##	[481]	"listen"	"little"	"live"	"load"	"local"
##	[486]	"lock"	"london"	"long"	"look"	"lord"
##	[491]	"lose"	"lot"	"love"	"low"	"luck"
##	[496]	"lunch"	"machine"	"main"	"major"	"make"
##	[501]	"man"	"manage"	"many"	"mark"	"market"
##	[506]	"marry"	"match"	"matter"	"may"	"maybe"
##	[511]	"mean"	"meaning"	"measure"	"meet"	"member"
##	[516]	"mention"	"middle"	"might"	"mile"	"milk"
##	[521]	"million"	"mind"	"minister"	"minus"	"minute"
##	[526]	"miss"	"mister"	"moment"	"monday"	"money"
##	[531]	"month"	"more"	"morning"	"most"	"mother"
##	[536]	"motion"	"move"	"mrs"	"much"	"music"
##	[541]	"must"	"name"	"nation"	"nature"	"near"
##	[546]	"necessary"	"need"	"never"	"new"	"news"
##	[551]	"next"	"nice"	"night"	"nine"	"no"
##	[556]	"non"	"none"	"normal"	"north"	"not"
##	[561]	"note"	"notice"	"now"	"number"	"obvious"
##	[566]	"occasion"	"odd"	"of"	"off"	"offer"
##	[571]	"office"	"often"	"okay"	"old"	"on"
##	[576]	"once"	"one"	"only"	"open"	"operate"
##	[581]	"opportunity"		"or"	"order"	"organize"
##	[586]	"original"	"other"	"otherwise"	"ought"	"out"
##	[591]	"over"	"own"	"pack"	"page"	"paint"
##	[596]	"pair"	"paper"	"paragraph"	"pardon"	"parent"
##	[601]	"park"	"part"	"particular"	"party"	"pass"
##	[606]	"past"	"pay"	"pence"	"pension"	"people"
	-	-		-	-	

шш	[611]	UU	!!	II	!!	II
	[611] [616]	"per"	"percent"	"perfect" "pick"	"perhaps"	"period"
	[621]	"person"	"photograph"	_	"picture"	"piece" "plus"
		"place"	"plan"	"play"	"please"	
	[626]	"point"	"police"	"policy"	"politic"	"poor"
	[631]	"position"	"positive"	"possible"	"post"	"pound"
	[636]	"power"	"practise"	"prepare"	"present"	"press"
	[641]	"pressure"	"presume"	"pretty"	"previous"	"price"
	[646]	"print"	"private"	"probable"	"problem" "	"proceed"
	[651]	"process"	"produce"	"product"	"programme"	"project"
	[656]	"proper"	"propose"	"protect"	"provide"	"public"
	[661]	"pull"	"purpose"	"push"	"put"	"quality"
	[666]	"quarter"	"question"	"quick"	"quid"	"quiet"
	[671]	"quite"	"radio"	"rail"	"raise"	"range"
##	[676]	"rate"	"rather"	"read"	"ready"	"real"
##	[681]	"realise"	"really"	"reason"	"receive"	"recent"
##	[686]	"reckon"	"recognize"	"recommend"	"record"	"red"
##	[691]	"reduce"	"refer"	"regard"	"region"	"relation"
	[696]	"remember"	"report"	"represent"	"require"	"research"
	[701]	"resource"	"respect"	"responsible"	"rest"	"result"
	[706]	"return"	"rid"	"right"	"ring"	"rise"
##	[711]	"road"	"role"	"roll"	"room"	"round"
##	[716]	"rule"	"run"	"safe"	"sale"	"same"
##	[721]	"saturday"	"save"	"say"	"scheme"	"school"
##	[726]	"science"	"score"	"scotland"	"seat"	"second"
##	[731]	"secretary"	"section"	"secure"	"see"	"seem"
##	[736]	"self"	"sell"	"send"	"sense"	"separate"
##	[741]	"serious"	"serve"	"service"	"set"	"settle"
##	[746]	"seven"	"sex"	"shall"	"share"	"she"
##	[751]	"sheet"	"shoe"	"shoot"	"shop"	"short"
##	[756]	"should"	"show"	"shut"	"sick"	"side"
##	[761]	"sign"	"similar"	"simple"	"since"	"sing"
##	[766]	"single"	"sir"	"sister"	"sit"	"site"
##	[771]	"situate"	"six"	"size"	"sleep"	"slight"
##	[776]	"slow"	"small"	"smoke"	"so"	"social"
##	[781]	"society"	"some"	"son"	"soon"	"sorry"
##	[786]	"sort"	"sound"	"south"	"space"	"speak"
##	[791]	"special"	"specific"	"speed"	"spell"	"spend"
##	[796]	"square"	"staff"	"stage"	"stairs"	"stand"
##	[801]	"standard"	"start"	"state"	"station"	"stay"
##	[806]	"step"	"stick"	"still"	"stop"	"story"
##	[811]	"straight"	"strategy"	"street"	"strike"	"strong"
	[816]	"structure"	"student"	"study"	"stuff"	"stupid"
	[821]	"subject"	"succeed"	"such"	"sudden"	"suggest"
	[826]	"suit"	"summer"	"sun"	"sunday"	"supply"
	[831]	"support"	"suppose"	"sure"	"surprise"	"switch"
	[836]	"system"	"table"	"take"	"talk"	"tape"
	[841]	"tax"	"tea"	"teach"	"team"	"telephone"
	[846]	"television"	"tell"	"ten"	"tend"	"term"
	[851]	"terrible"	"test"	"than"	"thank"	"the"
	[856]	"then"	"there"	"therefore"	"they"	"thing"
	[861]	"think"	"thirteen"	"thirty"	"this"	"thou"
	[866]		"thousand"	"three"	"through"	"throw"
	[871]	"though"	"tie"	"time"	"to"	"today"
	[876]	"thursday"	"tomorrow"		"too"	"top"
##	[0,0]	"together"	COMOLION	"tonight"	000	оор

```
## [881] "total"
                         "touch"
                                        "toward"
                                                        "town"
                                                                       "trade"
   [886] "traffic"
                                                        "travel"
                         "train"
                                        "transport"
                                                                       "treat"
                         "trouble"
                                                                       "try"
   [891] "tree"
                                        "true"
                                                        "trust"
                                                                       "two"
  [896] "tuesday"
                         "turn"
                                        "twelve"
                                                        "twenty"
##
   [901] "type"
                         "under"
                                        "understand"
                                                        "union"
                                                                       "unit"
  [906] "unite"
##
                         "university"
                                        "unless"
                                                        "until"
                                                                       "up"
  [911] "upon"
                                                                       "various"
                         "use"
                                        "usual"
                                                        "value"
## [916] "very"
                         "video"
                                        "view"
                                                        "village"
                                                                       "visit"
   [921] "vote"
##
                         "wage"
                                        "wait"
                                                        "walk"
                                                                       "wall"
  [926] "want"
##
                         "war"
                                        "warm"
                                                        "wash"
                                                                       "waste"
  [931] "watch"
                         "water"
                                        "way"
                                                        "we"
                                                                       "wear"
## [936] "wednesday"
                                        "week"
                                                        "weigh"
                         "wee"
                                                                       "welcome"
##
   [941] "well"
                         "west"
                                        "what"
                                                        "when"
                                                                       "where"
## [946] "whether"
                         "which"
                                        "while"
                                                        "white"
                                                                       "who"
## [951] "whole"
                         "why"
                                        "wide"
                                                        "wife"
                                                                       "will"
## [956] "win"
                         "wind"
                                        "window"
                                                        "wish"
                                                                       "with"
  [961] "within"
##
                         "without"
                                        "woman"
                                                        "wonder"
                                                                       "wood"
## [966] "word"
                         "work"
                                        "world"
                                                        "worry"
                                                                       "worse"
## [971] "worth"
                         "would"
                                        "write"
                                                        "wrong"
str_subset(words, "x$")
## [1] "box" "sex" "six" "tax"
str_subset(words, "^x|x$")
## [1] "box" "sex" "six" "tax"
#e
str_subset(words, "^[aeiou].*[^aeiou]$")
##
     [1] "about"
                         "accept"
                                        "account"
                                                        "across"
                                                                       "act"
##
     [6] "actual"
                         "add"
                                        "address"
                                                        "admit"
                                                                       "affect"
##
    [11] "afford"
                         "after"
                                        "afternoon"
                                                        "again"
                                                                       "against"
                         "air"
                                        "all"
                                                        "allow"
                                                                       "almost"
##
    [16] "agent"
##
    [21] "along"
                                        "alright"
                                                        "although"
                                                                       "always"
                         "already"
##
    [26] "amount"
                         "and"
                                        "another"
                                                        "answer"
                                                                       "any"
##
    [31] "apart"
                         "apparent"
                                        "appear"
                                                        "apply"
                                                                       "appoint"
    [36] "approach"
                         "arm"
                                                        "art"
                                                                       "as"
##
                                        "around"
##
    [41] "ask"
                         "at"
                                                        "authority"
                                        "attend"
                                                                       "away"
##
    [46] "awful"
                         "each"
                                        "early"
                                                        "east"
                                                                       "easy"
##
    [51] "eat"
                         "economy"
                                        "effect"
                                                        "egg"
                                                                       "eight"
##
    [56] "either"
                         "elect"
                                        "electric"
                                                        "eleven"
                                                                       "employ"
    [61] "end"
##
                         "english"
                                        "enjoy"
                                                                       "enter"
                                                        "enough"
##
    [66] "environment"
                         "equal"
                                        "especial"
                                                        "even"
                                                                       "evening"
    [71] "ever"
                                        "exact"
                                                        "except"
                                                                       "exist"
##
                         "every"
##
    [76] "expect"
                                                        "identify"
                                                                       "if"
                         "explain"
                                        "express"
##
    [81] "important"
                         "in"
                                        "indeed"
                                                        "individual"
                                                                       "industry"
    [86] "inform"
                                                        "invest"
                                                                       "it"
##
                         "instead"
                                        "interest"
                                                                       "of"
    [91] "item"
                                                        "odd"
##
                         "obvious"
                                        "occasion"
```

```
[96] "off"
##
                        "offer"
                                       "often"
                                                                     "old"
                                                      "okav"
##
   [101] "on"
                        "only"
                                       "open"
                                                      "opportunity"
                                                                     "or"
   [106] "order"
                        "original"
                                       "other"
                                                      "ought"
                                                                     "out"
  [111] "over"
                        "own"
                                       "under"
                                                      "understand"
                                                                     "union"
## [116] "unit"
                        "university"
                                       "unless"
                                                      "until"
                                                                     "up"
  [121] "upon"
##
                        "usual"
#f
str_subset(words, "^[a-z][a-z][a-z]$")
     [1] "act" "add" "age" "ago" "air" "all" "and" "any" "arm" "art" "ask" "bad"
##
    [13] "bag" "bar" "bed" "bet" "big" "bit" "box" "boy" "bus" "but" "buy" "can"
##
    [25] "car" "cat" "cup" "cut" "dad" "day" "die" "dog" "dry" "due" "eat" "egg"
##
    [37] "end" "eye" "far" "few" "fit" "fly" "for" "fun" "gas" "get" "god" "guy"
##
    [49] "hit" "hot" "how" "job" "key" "kid" "lad" "law" "lay" "leg" "let" "lie"
##
    [61] "lot" "low" "man" "may" "mrs" "new" "non" "not" "now" "odd" "off" "old"
    [73] "one" "out" "own" "pay" "per" "put" "red" "rid" "run" "say" "see" "set"
##
    [85] "sex" "she" "sir" "sit" "six" "son" "sun" "tax" "tea" "ten" "the" "tie"
##
    [97] "too" "top" "try" "two" "use" "war" "way" "wee" "who" "why" "win" "yes"
##
   [109] "yet" "you"
#g
str_subset(words, "^[a-z]{7,}$")
##
     [1] "absolute"
                        "account"
                                       "achieve"
                                                      "address"
                                                                     "advertise"
                        "against"
                                                                     "although"
##
     [6] "afternoon"
                                       "already"
                                                      "alright"
##
    [11]
         "america"
                        "another"
                                                      "appoint"
                                                                     "approach"
                                       "apparent"
##
    [16] "appropriate"
                        "arrange"
                                       "associate"
                                                      "authority"
                                                                     "available"
##
    [21] "balance"
                        "because"
                                       "believe"
                                                      "benefit"
                                                                     "between"
    [26] "brilliant"
                        "britain"
                                       "brother"
                                                      "business"
                                                                     "certain"
##
    [31] "chairman"
                                                      "collect"
##
                        "character"
                                       "colleague"
                                                                     "college"
##
    [36] "comment"
                        "committee"
                                       "community"
                                                      "company"
                                                                     "compare"
    [41] "complete"
                                                      "condition"
                                                                     "consider"
##
                        "compute"
                                       "concern"
    [46] "consult"
                        "contact"
                                       "continue"
                                                                     "control"
##
                                                      "contract"
##
    [51] "converse"
                        "correct"
                                       "council"
                                                      "country"
                                                                     "current"
    [56] "decision"
##
                        "definite"
                                       "department"
                                                      "describe"
                                                                     "develop"
##
    [61] "difference"
                        "difficult"
                                       "discuss"
                                                      "district"
                                                                     "document"
    [66] "economy"
                        "educate"
                                       "electric"
##
                                                      "encourage"
                                                                     "english"
##
    [71] "environment"
                        "especial"
                                       "evening"
                                                      "evidence"
                                                                     "example"
##
    [76] "exercise"
                        "expense"
                                       "experience"
                                                      "explain"
                                                                     "express"
##
    [81] "finance"
                        "fortune"
                                       "forward"
                                                      "function"
                                                                     "further"
    [86] "general"
##
                        "germany"
                                       "goodbye"
                                                      "history"
                                                                     "holiday"
    [91] "hospital"
##
                        "however"
                                       "hundred"
                                                      "husband"
                                                                     "identify"
##
    [96] "imagine"
                        "important"
                                       "improve"
                                                      "include"
                                                                     "increase"
   [101] "individual"
                        "industry"
                                       "instead"
                                                      "interest"
                                                                     "introduce"
##
   [106] "involve"
                        "kitchen"
                                       "language"
                                                      "machine"
                                                                     "meaning"
##
   [111] "measure"
                        "mention"
                                       "million"
                                                      "minister"
                                                                     "morning"
   [116] "necessary"
                        "obvious"
                                       "occasion"
                                                      "operate"
                                                                     "opportunity"
   [121] "organize"
                                                                     "particular"
##
                        "original"
                                       "otherwise"
                                                      "paragraph"
```

"perhaps"

"positive"

"pressure"

"problem"

"photograph"

"possible"

"presume"

"proceed"

"perfect"

"position"

"present"

"probable"

"percent"

"politic"

"prepare"

"private"

[126] "pension"

[131] "picture"

[136] "practise"

[141] "previous"

```
"produce"
                                        "product"
## [146] "process"
                                                       "programme"
                                                                       "project"
   [151] "propose"
                         "protect"
                                        "provide"
                                                       "purpose"
                                                                      "quality"
                         "question"
   [156] "quarter"
                                        "realise"
                                                       "receive"
                                                                      "recognize"
   [161] "recommend"
                         "relation"
                                        "remember"
                                                       "represent"
                                                                      "require"
   [166] "research"
                         "resource"
                                        "respect"
                                                       "responsible"
                                                                      "saturday"
  [171] "science"
##
                         "scotland"
                                        "secretary"
                                                       "section"
                                                                      "separate"
   [176] "serious"
                         "service"
                                        "similar"
                                                       "situate"
                                                                      "society"
## [181]
         "special"
                         "specific"
                                        "standard"
                                                       "station"
                                                                      "straight"
##
   Г1867
         "strategy"
                         "structure"
                                        "student"
                                                       "subject"
                                                                      "succeed"
   [191]
         "suggest"
                         "support"
                                        "suppose"
                                                       "surprise"
                                                                      "telephone"
   [196] "television"
                         "terrible"
                                        "therefore"
                                                       "thirteen"
                                                                      "thousand"
   [201]
                         "thursday"
         "through"
                                        "together"
                                                       "tomorrow"
                                                                      "tonight"
##
   [206] "traffic"
                                        "trouble"
                                                       "tuesday"
                                                                      "understand"
                         "transport"
   [211] "university"
                                                       "wednesday"
                         "various"
                                        "village"
                                                                      "welcome"
## [216] "whether"
                         "without"
                                        "yesterday"
```

#h

str_subset(words, "[aeiou][^aeiou]")

```
##
     [1] "able"
                          "about"
                                         "absolute"
                                                         "accept"
                                                                         "account"
##
     [6]
          "achieve"
                          "across"
                                         "act"
                                                         "active"
                                                                         "actual"
##
    Γ11]
         "add"
                                         "admit"
                          "address"
                                                         "advertise"
                                                                         "affect"
##
    [16] "afford"
                          "after"
                                         "afternoon"
                                                                         "against"
                                                         "again"
    [21]
##
          "age"
                          "agent"
                                         "ago"
                                                         "agree"
                                                                         "air"
                                                         "along"
##
    [26]
         "all"
                          "allow"
                                         "almost"
                                                                         "already"
##
    [31]
         "alright"
                          "also"
                                         "although"
                                                         "always"
                                                                         "america"
##
    [36]
          "amount"
                          "and"
                                         "another"
                                                         "answer"
                                                                         "any"
##
    [41]
          "apart"
                          "apparent"
                                         "appear"
                                                         "apply"
                                                                         "appoint"
##
    [46]
         "approach"
                                         "area"
                                                         "argue"
                                                                         "arm"
                          "appropriate"
##
    [51] "around"
                          "arrange"
                                          "art"
                                                         "as"
                                                                         "ask"
##
    [56] "associate"
                          "assume"
                                         "at"
                                                         "attend"
                                                                         "authority"
                                                                         "baby"
    [61] "available"
                                                         "awful"
##
                          "aware"
                                         "away"
                                                                         "ball"
##
    [66] "back"
                          "bad"
                                         "bag"
                                                         "balance"
##
    [71] "bank"
                          "bar"
                                                         "basis"
                                                                         "bear"
                                         "base"
                                                                         "bed"
##
    [76] "beat"
                                          "because"
                          "beauty"
                                                         "become"
##
    [81] "before"
                          "begin"
                                         "behind"
                                                         "believe"
                                                                         "benefit"
    [86] "best"
                                                                         "bill"
##
                          "bet"
                                                         "big"
                                         "between"
                                                                         "blood"
##
    [91] "birth"
                          "bit"
                                         "black"
                                                         "bloke"
    [96] "blow"
                          "board"
                                         "boat"
                                                                         "book"
##
                                                         "body"
##
   [101] "both"
                          "bother"
                                         "bottle"
                                                         "bottom"
                                                                         "box"
##
   [106] "boy"
                          "break"
                                         "brief"
                                                         "brilliant"
                                                                         "bring"
   [111] "britain"
                          "brother"
                                         "budget"
                                                         "build"
                                                                         "bus"
                                         "but"
                                                         "buy"
## [116] "business"
                          "busy"
                                                                         "cake"
                                                                         "care"
##
   [121] "call"
                          "can"
                                         "car"
                                                         "card"
   [126] "carry"
                          "case"
                                         "cat"
                                                         "catch"
                                                                         "cause"
   [131] "cent"
                                                         "chair"
                          "centre"
                                          "certain"
                                                                         "chairman"
   [136] "chance"
                          "change"
                                         "chap"
                                                         "character"
                                                                         "charge"
                                         "child"
##
   [141] "cheap"
                          "check"
                                                                         "choose"
                                                         "choice"
   [146] "Christ"
                          "Christmas"
                                         "church"
                                                         "city"
                                                                         "claim"
                                                         "client"
## [151] "class"
                                         "clear"
                          "clean"
                                                                         "clock"
## [156] "close"
                          "closes"
                                         "clothe"
                                                         "club"
                                                                         "coffee"
##
   [161] "cold"
                          "colleague"
                                         "collect"
                                                         "college"
                                                                         "colour"
                                         "commit"
   [166] "come"
                          "comment"
                                                         "committee"
                                                                         "common"
   [171] "community"
                                         "compare"
                          "company"
                                                         "complete"
                                                                         "compute"
```

##	[176]	"concern"	"condition"	"confer"	"consider"	"consult"
##	[181]	"contact"	"continue"	"contract"	"control"	"converse"
##	[186]	"cook"	"copy"	"corner"	"correct"	"cost"
##	[191]	"could"	"council"	"count"	"country"	"county"
##	[196]	"couple"	"course"	"court"	"cover"	"create"
##	[201]	"cross"	"cup"	"current"	"cut"	"dad"
##	[206]	"danger"	"date"	"day"	"dead"	"deal"
##	[211]	"dear"	"debate"	"decide"	"decision"	"deep"
##	[216]	"definite"	"degree"	"department"	"depend"	"describe"
##	[221]	"design"	"detail"	"develop"	"difference"	"difficult"
##	[226]	"dinner"	"direct"	"discuss"	"district"	"divide"
##	[231]	"doctor"	"document"	"dog"	"door"	"double"
##	[236]	"doubt"	"down"	"draw"	"dress"	"drink"
##	[241]	"drive"	"drop"	"during"	"each"	"early"
##	[246]	"east"	"easy"	"eat"	"economy"	"educate"
##	[251]	"effect"	"egg"	"eight"	"either"	"elect"
##	[256]	"electric"	"eleven"	"else"	"employ"	"encourage"
##	[261]	"end"	"engine"	"english"	"enjoy"	"enough"
##	[266]	"enter"	"environment"	"equal"	"especial"	"europe"
##	[271]	"even"	"evening"	"ever"	"every"	"evidence"
##	[276]	"exact"	"example"	"except"	"excuse"	"exercise"
##	[281]	"exist"	"expect"	"expense"	"experience"	"explain"
##	[286]	"express"	"extra"	"eye"	"face"	"fact"
##	[291]	"fair"	"fall"	"family"	"far"	"farm"
##	[296]	"fast"	"father"	"favour"	"feed"	"feel"
##	[301]	"few"	"field"	"fight"	"figure"	"file"
##	[306]	"fill"	"film"	"final"	"finance"	"find"
##	[311]	"fine"	"finish"	"fire"	"first"	"fish"
##	[316]	"fit"	"five"	"flat"	"floor"	"follow"
##	[321]	"food"	"foot"	"for"	"force"	"forget"
##	[326]	"form"	"fortune"	"forward"	"four"	"france"
##	[331]	"friday"	"friend"	"from"	"front"	"full"
##	[336]	"fun"	"function"	"fund"	"further"	"future"
##	[341]	"game"	"garden"	"gas"	"general"	"germany"
##	[346]	"get"	"girl"	"give"	"glass"	"god"
##	[351]	"good"	"goodbye"	"govern"	"grand"	"grant"
##	[356]	"great"	"green"	"ground"	"group"	"grow"
##	[361]	"guess"	"guy"	"hair"	"half"	"hall"
##	[366]	"hand"	"hang"	"happen"	"happy"	"hard"
##	[371]	"hate"	"have"	"head"	"health"	"hear"
##	[376]	"heart"	"heat"	"heavy"	"hell"	"help"
##	[381]	"here"	"high"	"history"	"hit"	"hold"
##	[386]	"holiday"	"home"	"honest"	"hope"	"horse"
##	[391]	"hospital"	"hot"	"hour"	"house"	"how"
##	[396]	"however"	"hullo"	"hundred"	"husband"	"idea"
##	[401]	"identify"	"if"	"imagine"	"important"	"improve"
##	[406]	"in"	"include"	"income"	"increase"	"indeed"
##	[411]	"individual"	"industry"	"inform"	"inside"	"instead"
##	[416]	"insure"	"interest"	"into"	"introduce"	"invest"
##	[421]	"involve"	"issue"	"it"	"item"	"jesus"
	[426]	"job"	"join"	"judge"	"jump"	"just"
	[431]	"keep"	"key"	"kid"	"kill"	"kind"
##	[436]	"king"	"kitchen"	"knock"	"know"	"labour"
	[441]	"lad"	"lady"	"land"	"language"	"large"
			v		5 5	J

##	[446]	"last"	"late"	"laugh"	"law"	"lay"
##	[451]	"lead"	"learn"	"leave"	"left"	"leg"
##	[456]	"less"	"let"	"letter"	"level"	"life"
##	[461]	"light"	"like"	"likely"	"limit"	"line"
##	[466]	"link"	"list"	"listen"	"little"	"live"
##	[471]	"load"	"local"	"lock"	"london"	"long"
##	[476]	"look"	"lord"	"lose"	"lot"	"love"
##	[481]	"low"	"luck"	"lunch"	"machine"	"main"
##	[486]	"major"	"make"	"man"	"manage"	"many"
##	[491]	"mark"	"market"	"marry"	"match"	"matter"
##	[496]	"may"	"maybe"	"mean"	"meaning"	"measure"
##	[501]	"meet"	"member"	"mention"	"middle"	"might"
##	[506]	"mile"	"milk"	"million"	"mind"	"minister"
##	[511]	"minus"	"minute"	"miss"	"mister"	"moment"
##	[516]	"monday"	"money"	"month"	"more"	"morning"
##	[521]	"most"	"mother"	"motion"	"move"	"much"
##	[526]	"music"	"must"	"name"	"nation"	"nature"
##	[531]	"near"	"necessary"	"need"	"never"	"new"
##	[536]	"news"	"next"	"nice"	"night"	"nine"
##	[541]	"non"	"none"	"normal"	"north"	"not"
##	[546]	"note"	"notice"	"now"	"number"	"obvious"
##	[551]	"occasion"	"odd"	"of"	"off"	"offer"
##	[556]	"office"	"often"	"okay"	"old"	"on"
##	[561]	"once"	"one"	"only"	"open"	"operate"
##	[566]	"opportunity"	"oppose"	"or"	"order"	"organize"
##	[571]	"original"	"other"	"otherwise"	"ought"	"out"
##	[576]	"over"	"own"	"pack"	"page"	"paint"
##	[581]	"pair"	"paper"	"paragraph"	"pardon"	"parent"
## ##	[581] [586]	"pair" "park"	"paper" "part"	"paragraph" "particular"	"pardon" "party"	"parent" "pass"
## ## ##	[581] [586] [591]	"pair" "park" "past"	"paper" "part" "pay"	"paragraph" "particular" "pence"	"pardon" "party" "pension"	"parent" "pass" "people"
## ## ## ##	[581] [586] [591] [596]	"pair" "park" "past" "per"	"paper" "part" "pay" "percent"	"paragraph" "particular" "pence" "perfect"	"pardon" "party" "pension" "perhaps"	"parent" "pass" "people" "period"
## ## ## ##	[581] [586] [591] [596] [601]	"pair" "park" "past" "per" "person"	"paper" "part" "pay" "percent" "photograph"	"paragraph" "particular" "pence" "perfect" "pick"	"pardon" "party" "pension" "perhaps" "picture"	"parent" "pass" "people" "period" "piece"
## ## ## ## ##	[581] [586] [591] [596] [601] [606]	"pair" "park" "past" "per" "person" "place"	"paper" "part" "pay" "percent" "photograph" "plan"	"paragraph" "particular" "pence" "perfect" "pick" "play"	"pardon" "party" "pension" "perhaps" "picture" "please"	"parent" "pass" "people" "period" "piece" "plus"
## ## ## ## ## ##	[581] [586] [591] [596] [601] [606] [611]	"pair" "park" "past" "per" "person" "place" "point"	"paper" "part" "pay" "percent" "photograph" "plan" "police"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic"	"parent" "pass" "people" "period" "piece" "plus" "poor"
## ## ## ## ## ##	[581] [586] [591] [596] [601] [606] [611] [616]	"pair" "park" "past" "per" "person" "place" "point" "position"	"paper" "part" "pay" "percent" "photograph" "plan" "police" "positive"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy" "possible"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound"
## ## ## ## ## ##	[581] [586] [591] [596] [601] [606] [611] [616] [621]	"pair" "park" "past" "per" "person" "place" "point" "position" "power"	"paper" "part" "pay" "percent" "photograph" "plan" "police" "positive" "practise"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy" "possible" "prepare"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post" "present"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound" "press"
## ## ## ## ## ##	[581] [586] [591] [596] [601] [606] [611] [616] [621] [626]	"pair" "park" "past" "per" "person" "place" "point" "position" "power" "pressure"	"paper" "part" "pay" "percent" "photograph" "plan" "police" "positive" "practise" "presume"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy" "possible" "prepare" "pretty"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post" "present" "previous"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound" "press" "price"
## ## ## ## ## ## ##	[581] [586] [591] [596] [601] [606] [611] [616] [621] [626] [631]	"pair" "park" "past" "per" "person" "place" "point" "position" "power" "pressure" "print"	"paper" "pay" "percent" "photograph" "plan" "police" "positive" "practise" "presume" "private"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy" "possible" "prepare" "pretty" "probable"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post" "present" "previous" "problem"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound" "press" "price" "proceed"
## ## ## ## ## ## ##	[581] [586] [591] [596] [601] [606] [611] [616] [621] [626] [631] [636]	"pair" "park" "past" "per" "person" "place" "point" "position" "power" "pressure" "print" "process"	"paper" "payt" "pay" "percent" "photograph" "plan" "police" "positive" "practise" "presume" "private" "produce"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy" "possible" "prepare" "pretty" "probable" "product"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post" "present" "previous" "problem" "programme"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound" "press" "price" "proceed" "project"
## ## ## ## ## ## ## ##	[581] [586] [591] [596] [601] [606] [611] [616] [621] [626] [631] [636] [641]	"pair" "park" "past" "per" "person" "place" "point" "position" "power" "pressure" "print" "process" "proper"	"paper" "part" "pay" "percent" "photograph" "plan" "police" "positive" "practise" "presume" "private" "produce" "propose"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy" "possible" "prepare" "pretty" "probable" "product" "protect"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post" "present" "present" "problem" "programme" "provide"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound" "press" "price" "proceed" "project" "public"
## ## ## ## ## ## ## ##	[581] [586] [591] [596] [601] [606] [611] [616] [621] [626] [631] [636] [641] [646]	"pair" "park" "past" "per" "person" "place" "point" "position" "power" "pressure" "print" "process" "proper"	"paper" "part" "pay" "percent" "photograph" "plan" "police" "positive" "practise" "presume" "private" "produce" "propose" "purpose"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy" "possible" "prepare" "pretty" "probable" "product" "protect" "push"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post" "present" "previous" "problem" "programme" "provide" "put"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound" "press" "price" "proceed" "project" "public" "quality"
## ## ## ## ## ## ## ##	[581] [586] [591] [596] [601] [606] [611] [616] [621] [626] [631] [636] [641] [646] [651]	"pair" "park" "past" "per" "person" "place" "point" "position" "power" "pressure" "print" "process" "proper" "pull" "quarter"	"paper" "part" "pay" "percent" "photograph" "plan" "police" "positive" "practise" "presume" "private" "produce" "propose" "purpose" "question"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy" "possible" "prepare" "pretty" "probable" "product" "protect" "push" "quick"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post" "present" "previous" "previous" "problem" "programme" "provide" "put" "quid"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound" "press" "price" "proceed" "project" "public" "quality" "quiet"
## ## ## ## ## ## ## ## ##	[581] [586] [591] [596] [601] [606] [611] [616] [621] [626] [631] [636] [641] [646] [651] [656]	"pair" "park" "past" "per" "person" "place" "point" "position" "power" "pressure" "print" "process" "proper" "pull" "quarter"	"paper" "part" "pay" "percent" "photograph" "plan" "police" "positive" "practise" "presume" "private" "private" "propose" "purpose" "question" "radio"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy" "possible" "prepare" "pretty" "probable" "product" "protect" "push" "quick" "rail"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post" "present" "previous" "previous" "problem" "programme" "provide" "put" "quid" "raise"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound" "press" "price" "price" "proceed" "project" "public" "quality" "quiet" "range"
## ###################################	[581] [586] [591] [596] [601] [606] [611] [616] [621] [626] [631] [636] [641] [646] [651] [656] [651]	"pair" "park" "park" "per" "person" "place" "point" "position" "power" "pressure" "print" "process" "proper" "pull" "quarter" "quite" "rate"	"paper" "part" "pay" "percent" "photograph" "plan" "police" "positive" "practise" "presume" "private" "private" "propose" "purpose" "question" "radio" "rather"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy" "possible" "prepare" "pretty" "probable" "product" "protect" "push" "quick" "rail" "read"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post" "present" "previous" "problem" "programme" "provide" "put" "quid" "raise" "ready"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound" "press" "price" "proceed" "project" "public" "quality" "quiet" "range" "real"
######################################	[581] [586] [591] [596] [601] [606] [611] [616] [621] [626] [631] [636] [641] [646] [656] [661] [666]	"pair" "park" "park" "per" "person" "place" "point" "position" "power" "pressure" "print" "process" "proper" "pull" "quarter" "quite" "rate" "realise"	"paper" "payt" "payt" "percent" "photograph" "plan" "police" "positive" "practise" "presume" "private" "private" "propose" "purpose" "question" "radio" "rather" "really"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy" "possible" "prepare" "pretty" "probable" "product" "protect" "push" "quick" "rail" "read" "reason"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post" "present" "previous" "problem" "programme" "provide" "put" "quid" "raise" "ready" "receive"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound" "press" "price" "priced" "project" "public" "quality" "quality" "range" "real"
## ## ## ## ## ## ## ## ## ##	[581] [586] [591] [596] [601] [606] [611] [616] [621] [626] [631] [636] [641] [646] [651] [656] [661] [666] [671]	"pair" "park" "park" "per" "person" "place" "point" "position" "power" "pressure" "print" "process" "proper" "pull" "quarter" "quite" "rate" "realise" "reckon"	"paper" "payt" "payt" "percent" "photograph" "plan" "police" "positive" "practise" "presume" "private" "private" "propose" "purpose" "question" "radio" "rather" "really"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy" "possible" "prepare" "pretty" "probable" "product" "product" "push" "quick" "rail" "read" "reason"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post" "present" "previous" "problem" "programme" "provide" "put" "quid" "raise" "ready" "receive"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound" "press" "price" "proceed" "project" "public" "quality" "quiet" "range" "real" "recent"
######################################	[581] [586] [591] [596] [601] [606] [611] [616] [621] [636] [631] [646] [651] [656] [661] [666] [671] [676]	"pair" "park" "past" "per" "person" "place" "point" "position" "power" "pressure" "print" "process" "proper" "pull" "quarter" "quite" "rate" "realise" "reduce"	"paper" "part" "pay" "percent" "photograph" "plan" "police" "positive" "practise" "presume" "private" "produce" "propose" "purpose" "question" "radio" "rather" "recognize" "refer"	"paragraph" "particular" "perce" "perfect" "pick" "play" "policy" "possible" "prepare" "pretty" "probable" "product" "product" "push" "quick" "rail" "read" "reason" "recommend" "regard"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post" "present" "previous" "problem" "programme" "provide" "put" "quid" "raise" "ready" "receive" "record" "region"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound" "press" "price" "proceed" "project" "public" "quality" "quiet" "range" "real" "recent" "red" "relation"
######################################	[581] [586] [591] [596] [601] [606] [611] [616] [621] [626] [631] [636] [641] [656] [651] [656] [661] [666] [671] [676] [681]	"pair" "park" "past" "per" "person" "place" "point" "position" "power" "pressure" "print" "process" "proper" "pull" "quarter" "quite" "rate" "realise" "reckon" "reduce" "remember"	"paper" "part" "pay" "percent" "photograph" "plan" "police" "positive" "practise" "presume" "private" "produce" "propose" "purpose" "question" "radio" "rather" "really" "recognize" "refer" "report"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy" "possible" "prepare" "pretty" "probable" "product" "product" "push" "quick" "rail" "read" "reason" "recommend" "regard" "represent"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post" "present" "previous" "problem" "programme" "proyide" "put" "quid" "raise" "ready" "receive" "record" "region" "require"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound" "press" "price" "proceed" "project" "public" "quality" "quiet" "range" "real" "recent" "red" "research"
######################################	[581] [586] [591] [596] [601] [606] [611] [616] [621] [626] [631] [636] [641] [656] [651] [666] [671] [676] [681] [686]	"pair" "park" "park" "per" "person" "place" "point" "position" "power" "pressure" "print" "process" "proper" "pull" "quarter" "quite" "rate" "reckon" "reduce" "resource"	"paper" "pay" "percent" "photograph" "plan" "police" "positive" "practise" "presume" "private" "propose" "purpose" "question" "radio" "rather" "recognize" "refer" "respect"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy" "possible" "prepare" "pretty" "probable" "product" "protect" "push" "quick" "rail" "read" "reason" "recommend" "regard" "responsible"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post" "present" "previous" "problem" "proyide" "put" "quid" "raise" "ready" "receive" "record" "region" "require"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound" "press" "price" "price" "public" "quality" "quiet" "range" "real" "recent" "red" "research" "result"
######################################	[581] [586] [591] [596] [601] [606] [611] [616] [621] [626] [631] [636] [641] [656] [651] [666] [671] [676] [681] [686] [681]	"pair" "park" "park" "per" "person" "place" "point" "position" "power" "pressure" "print" "process" "proper" "pull" "quarter" "quite" "rate" "realise" "reckon" "reduce" "remember" "resource" "return"	"paper" "payt" "payt" "percent" "photograph" "plan" "police" "positive" "practise" "presume" "private" "propose" "purpose" "question" "radio" "rather" "really" "recognize" "refer" "respect" "rid"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy" "possible" "prepare" "pretty" "probable" "product" "protect" "push" "quick" "rail" "read" "reason" "regard" "represent" "responsible" "right"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post" "present" "previous" "problem" "proyide" "put" "quid" "raise" "ready" "receive" "record" "region" "require" "rest" "ring"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound" "press" "price" "proceed" "project" "public" "quality" "quality" "range" "real" "recent" "red" "research" "result" "rise"
######################################	[581] [586] [591] [596] [601] [606] [611] [616] [621] [626] [631] [636] [641] [656] [661] [666] [671] [676] [686] [681] [686] [691]	"pair" "park" "park" "per" "person" "place" "point" "position" "power" "pressure" "print" "process" "proper" "pull" "quarter" "quite" "rate" "realise" "reckon" "reduce" "remember" "resource" "return"	"paper" "payt" "payt" "percent" "photograph" "plan" "police" "positive" "practise" "presume" "private" "propose" "purpose" "question" "radio" "rather" "really" "recognize" "refer" "respect" "rid" "role"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy" "possible" "prepare" "pretty" "probable" "product" "protect" "push" "quick" "rail" "read" "reao" "responsible" "responsible" "right" "roll"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post" "present" "previous" "problem" "proyide" "put" "quid" "raise" "ready" "receive" "record" "region" "require" "rest" "ring" "room"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound" "press" "price" "proceed" "project" "public" "quality" "quality" "range" "real" "recent" "research" "result" "rise" "round"
######################################	[581] [586] [591] [596] [601] [606] [611] [616] [621] [626] [631] [636] [641] [646] [651] [666] [671] [676] [681] [686] [691] [696] [701]	"pair" "park" "park" "per" "person" "place" "point" "position" "power" "pressure" "print" "process" "proper" "pull" "quarter" "quite" "rate" "realise" "reckon" "reduce" "remember" "resource" "return" "road" "rule"	"paper" "pay" "percent" "photograph" "plan" "police" "positive" "practise" "presume" "private" "propose" "purpose" "question" "radio" "rather" "really" "recognize" "refer" "report" "respect" "rid" "role" "run"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy" "possible" "prepare" "pretty" "probable" "product" "protect" "push" "quick" "rail" "read" "reason" "recommend" "regard" "represent" "responsible" "roll" "safe"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post" "present" "previous" "problem" "programme" "provide" "put" "quid" "raise" "ready" "receive" "record" "region" "require" "ring" "room" "sale"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound" "press" "price" "proceed" "project" "public" "quality" "quiet" "real" "recent" "red" "research" "result" "rise" "round" "same"
######################################	[581] [586] [591] [596] [601] [606] [611] [616] [621] [626] [631] [636] [641] [656] [661] [666] [671] [676] [686] [681] [686] [691]	"pair" "park" "park" "per" "person" "place" "point" "position" "power" "pressure" "print" "process" "proper" "pull" "quarter" "quite" "rate" "realise" "reckon" "reduce" "remember" "resource" "return"	"paper" "payt" "payt" "percent" "photograph" "plan" "police" "positive" "practise" "presume" "private" "propose" "purpose" "question" "radio" "rather" "really" "recognize" "refer" "respect" "rid" "role"	"paragraph" "particular" "pence" "perfect" "pick" "play" "policy" "possible" "prepare" "pretty" "probable" "product" "protect" "push" "quick" "rail" "read" "reao" "responsible" "responsible" "right" "roll"	"pardon" "party" "pension" "perhaps" "picture" "please" "politic" "post" "present" "previous" "problem" "proyide" "put" "quid" "raise" "ready" "receive" "record" "region" "require" "rest" "ring" "room"	"parent" "pass" "people" "period" "piece" "plus" "poor" "pound" "press" "price" "proceed" "project" "public" "quality" "quality" "range" "real" "recent" "research" "result" "rise" "round"

```
## [716] "secretary"
                          "section"
                                         "secure"
                                                         "seem"
                                                                        "self"
   [721] "sell"
                          "send"
                                         "sense"
                                                         "separate"
                                                                        "serious"
                                                                        "seven"
   [726] "serve"
                          "service"
                                         "set"
                                                         "settle"
   [731] "sex"
                          "shall"
##
                                         "share"
                                                         "sheet"
                                                                        "shoot"
   [736] "shop"
                          "short"
                                         "should"
                                                         "show"
                                                                        "shut"
   [741] "sick"
##
                          "side"
                                         "sign"
                                                         "similar"
                                                                        "simple"
   [746] "since"
                                                        "sir"
                                                                        "sister"
                          "sing"
                                         "single"
  [751] "sit"
                         "site"
                                                         "six"
##
                                         "situate"
                                                                        "size"
##
   [756] "sleep"
                          "slight"
                                         "slow"
                                                         "small"
                                                                        "smoke"
   [761] "social"
                                                         "son"
##
                         "society"
                                         "some"
                                                                        "soon"
   [766] "sorry"
                          "sort"
                                         "sound"
                                                         "south"
                                                                        "space"
                                         "specific"
   [771]
                          "special"
                                                                        "spell"
##
         "speak"
                                                         "speed"
##
   [776] "spend"
                          "square"
                                         "staff"
                                                                        "stairs"
                                                         "stage"
   [781] "stand"
                          "standard"
                                                         "state"
##
                                         "start"
                                                                        "station"
   [786] "stay"
                          "step"
                                         "stick"
                                                         "still"
                                                                        "stop"
##
   [791]
         "story"
                          "straight"
                                         "strategy"
                                                         "street"
                                                                        "strike"
                                                                        "stuff"
##
   [796] "strong"
                          "structure"
                                         "student"
                                                         "study"
   [801] "stupid"
                          "subject"
                                         "succeed"
                                                         "such"
                                                                        "sudden"
                          "suit"
                                                         "sun"
##
   [806] "suggest"
                                         "summer"
                                                                        "sunday"
   [811] "supply"
                          "support"
                                         "suppose"
                                                         "sure"
                                                                        "surprise"
   [816] "switch"
##
                          "system"
                                         "table"
                                                         "take"
                                                                        "talk"
   [821] "tape"
                          "tax"
                                         "teach"
                                                         "team"
                                                                        "telephone"
   [826] "television"
                          "tell"
                                         "ten"
                                                         "tend"
                                                                        "term"
##
   Г8317
         "terrible"
                          "test"
                                         "than"
                                                                        "then"
                                                         "thank"
##
   [836] "there"
                          "therefore"
                                         "they"
                                                         "thing"
                                                                        "think"
   [841] "thirteen"
                          "thirty"
                                         "this"
                                                         "though"
                                                                        "thousand"
   [846]
         "through"
                          "throw"
                                         "thursday"
                                                         "time"
                                                                        "today"
##
   [851] "together"
                                                                        "total"
##
                          "tomorrow"
                                         "tonight"
                                                         "top"
##
   [856] "touch"
                          "toward"
                                         "town"
                                                                        "traffic"
                                                         "trade"
##
   [861] "train"
                          "transport"
                                         "travel"
                                                         "treat"
                                                                        "trouble"
##
   [866] "trust"
                          "tuesday"
                                         "turn"
                                                         "twelve"
                                                                        "twenty"
##
   [871]
         "under"
                          "understand"
                                         "union"
                                                         "unit"
                                                                        "unite"
   [876] "university"
                          "unless"
                                         "until"
                                                         "up"
                                                                        "upon"
   [881]
         "use"
                          "usual"
                                         "value"
                                                         "various"
                                                                        "very"
##
   [886]
         "video"
                          "view"
                                         "village"
                                                         "visit"
                                                                        "vote"
   [891] "wage"
                          "wait"
                                                         "wall"
##
                                         "walk"
                                                                        "want"
   [896] "war"
                          "warm"
                                         "wash"
                                                         "waste"
                                                                        "watch"
##
   [901] "water"
                          "way"
                                         "wear"
                                                         "wednesday"
                                                                        "week"
   [906]
         "weigh"
                                         "well"
                                                         "west"
                                                                        "what"
                          "welcome"
##
   [911] "when"
                                         "whether"
                                                                        "while"
                          "where"
                                                         "which"
   [916] "white"
                                         "wide"
                                                        "wife"
                                                                        "will"
                          "whole"
##
   [921] "win"
                          "wind"
                                         "window"
                                                         "wish"
                                                                        "with"
   [926] "within"
                          "without"
                                         "woman"
                                                         "wonder"
                                                                        "wood"
   [931] "word"
##
                          "work"
                                         "world"
                                                                        "worse"
                                                         "worry"
## [936] "worth"
                          "would"
                                         "write"
                                                         "wrong"
                                                                        "year"
## [941] "yes"
                          "yesterday"
                                         "yet"
                                                         "young"
\#i
str_subset(words, "([aeiou] [^aeiou]){2}")
                                         "along"
##
     [1] "absolute"
                                                         "america"
                                                                        "another"
                          "agent"
##
     [6]
         "apart"
                          "apparent"
                                         "authority"
                                                         "available"
                                                                        "aware"
                          "balance"
                                         "basis"
                                                         "become"
                                                                        "before"
##
    [11] "away"
##
    [16] "begin"
                          "behind"
                                         "benefit"
                                                         "business"
                                                                        "character"
```

```
[21] "closes"
##
                         "community"
                                        "consider"
                                                       "cover"
                                                                      "debate"
    [26] "decide"
##
                         "decision"
                                        "definite"
                                                       "department"
                                                                      "depend"
    [31] "design"
##
                         "develop"
                                        "difference"
                                                       "difficult"
                                                                      "direct"
    [36] "divide"
                                        "during"
##
                         "document"
                                                       "economy"
                                                                      "educate"
##
    [41] "elect"
                         "electric"
                                        "eleven"
                                                       "encourage"
                                                                      "environment"
##
    [46] "europe"
                                        "evening"
                         "even"
                                                       "ever"
                                                                      "every"
                         "exact"
##
    [51] "evidence"
                                        "example"
                                                       "exercise"
                                                                      "exist"
    [56] "family"
                         "figure"
##
                                        "final"
                                                       "finance"
                                                                      "finish"
                                        "general"
##
    [61] "friday"
                         "future"
                                                       "govern"
                                                                      "holiday"
    [66] "honest"
##
                         "hospital"
                                        "however"
                                                       "identify"
                                                                      "imagine"
    [71] "individual"
                         "interest"
                                        "introduce"
                                                       "item"
                                                                      "jesus"
##
    [76] "level"
                         "likely"
                                        "limit"
                                                       "local"
                                                                      "major"
##
    [81] "manage"
                                        "measure"
                                                       "minister"
                                                                      "minus"
                         "meaning"
##
    [86] "minute"
                         "moment"
                                        "money"
                                                       "music"
                                                                      "nature"
    [91] "necessary"
                         "never"
                                                       "okay"
                                                                      "open"
##
                                        "notice"
##
    [96] "operate"
                         "opportunity"
                                        "organize"
                                                       "original"
                                                                      "over"
   [101] "paper"
##
                         "paragraph"
                                        "parent"
                                                       "particular"
                                                                      "photograph"
   [106] "police"
                         "policy"
                                        "politic"
                                                                      "positive"
                                                       "position"
   [111] "power"
                         "prepare"
                                        "present"
                                                       "presume"
                                                                      "private"
  [116] "probable"
                         "process"
                                        "produce"
                                                       "product"
                                                                      "project"
## [121] "proper"
                         "propose"
                                        "protect"
                                                       "provide"
                                                                      "quality"
## [126] "realise"
                                        "recent"
                         "reason"
                                                       "recognize"
                                                                      "recommend"
## [131] "record"
                                        "refer"
                                                                      "relation"
                         "reduce"
                                                       "regard"
## [136] "remember"
                         "report"
                                        "represent"
                                                       "result"
                                                                      "return"
## [141] "saturday"
                         "second"
                                        "secretary"
                                                       "secure"
                                                                      "separate"
## [146] "seven"
                         "similar"
                                        "specific"
                                                       "strategy"
                                                                      "student"
## [151] "stupid"
                         "telephone"
                                        "television"
                                                       "therefore"
                                                                      "thousand"
## [156] "today"
                         "together"
                                        "tomorrow"
                                                       "tonight"
                                                                      "total"
## [161] "toward"
                         "travel"
                                        "unit"
                                                       "unite"
                                                                      "university"
## [166] "upon"
                         "visit"
                                        "water"
                                                       "woman"
#j
str_subset(words, "^([aeiou][^aeiou])+$")
##
    [1] "as"
                    "at"
                                 "away"
                                            "eleven"
                                                        "even"
                                                                    "ever"
    [7] "if"
                                "it"
                                                        "of"
                    "in"
                                            "item"
                                                                    "okay"
                                            "original" "over"
## [13] "on"
                    "open"
                                "or"
                                                                    "unit"
## [19] "up"
                    "upon"
```

Problem 2

```
## [1] "act" "add" "age" "ago" "air" "all" "and" "any" "arm" "art" "ask" "bad"
## [13] "bag" "bar" "bed" "bet" "big" "bit" "box" "boy" "bus" "but" "buy" "can"
## [25] "car" "cat" "cup" "cut" "dad" "day" "die" "dog" "dry" "due" "eat" "egg"
## [37] "end" "eye" "far" "few" "fit" "fly" "for" "fun" "gas" "get" "god" "guy"
## [49] "hit" "hot" "how" "job" "key" "kid" "lad" "law" "lay" "leg" "let" "lie"
## [61] "lot" "low" "man" "may" "mrs" "new" "non" "not" "now" "odd" "off" "old"
## [73] "one" "out" "own" "pay" "per" "put" "red" "rid" "run" "say" "see" "set"
```

```
## [85] "sex" "she" "sir" "sit" "six" "son" "sun" "tax" "tea" "ten" "the" "tie"
## [97] "too" "top" "try" "two" "use" "war" "way" "wee" "who" "why" "win" "yes"
## [109] "yet" "you"
swapped\_words <- str\_replace(words, "^([a-z])(.*)([a-z])$", "\\3\\2\\1")
words[swapped_words %in% words]
## [1] "a"
                     "america"
                                   "area"
                                                "Christ"
                                                             "Christmas"
                                   "deal"
                                                             "depend"
##
  [6] "dad"
                     "dead"
                                                "dear"
                     "educate"
                                  "else"
                                                "encourage"
                                                             "engine"
## [11] "dog"
## [16] "europe"
                     "evidence"
                                   "example"
                                                "excuse"
                                                             "exercise"
                     "experience" "eye"
                                                "god"
                                                             "health"
## [21] "expense"
## [26] "high"
                     "knock"
                                  "lead"
                                                "level"
                                                             "local"
## [31] "nation"
                     "no"
                                   "non"
                                                "on"
                                                             "rather"
                     "refer"
                                                "serious"
## [36] "read"
                                   "remember"
                                                             "stairs"
## [41] "test"
                                                             "trust"
                     "tonight"
                                   "transport"
                                                "treat"
## [46] "window"
                     "yesterday"
```

Problem 3

```
words |>
  str_subset("a") |>
  str_subset("e") |>
  str_subset("i") |>
  str_subset("o") |>
  str_subset("u")
```

character(0)

No, there are no words that contain all vowels

Problem 4

```
paste0("\"", str_replace_all("a/b/c/d/e", "/", "\\\\"), "\"") |> writeLines()
## "a\b\c\d\e"
```

Problem 5

```
babynames |>
  distinct(name) |>
  mutate(vowel_count = str_count(name, "[aeiouAEIOU]")) |>
  slice_max(vowel_count, n = 10)
```

```
## # A tibble: 78 x 2
##
     name
                     vowel_count
      <chr>
                         <int>
##
## 1 Mariaguadalupe
   2 Mariadelrosario
##
                               8
## 3 Marielouise
                               7
## 4 Mariadelourdes
## 5 Annielaurie
                               7
## 6 Mariadelosangel
                               7
## 7 Angelicamaria
                               7
## 8 Stephaniemarie
                               7
## 9 Mariavictoria
                               7
## 10 Aliciamarie
## # i 68 more rows
# The names Mariaguadalupe and Mariadelrosario have the most vowels.
babynames |>
 distinct(name) |>
 mutate(vowel_ratio = str_count(name, "[aeiouAEIOU]") / nchar(name)) |>
 slice_max(vowel_ratio, n = 10)
## # A tibble: 10 x 2
##
     name
           vowel_ratio
##
      <chr>
                  <dbl>
##
  1 Eua
                   1
## 2 Ea
                   1
## 3 Ai
                   1
## 4 Ia
                  1
## 5 Ii
## 6 Aoi
                  1
## 7 Io
## 8 Aia
                  1
## 9 Alaiia
                  0.833
## 10 Amaiia
                  0.833
# The names Eua, Ea, Ai, Ia, Ii, Aoi, Io, Aia have the highest proportion of vowels.
```