



ST551: HOMEWORK 4

Brian Cervantes Alvarez
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Part A



```
v <- c(18,10,6,9,6,11)
```

```
person
```

```
function (given = NULL, family = NULL, middle = NULL, email = NULL,
  role = NULL, comment = NULL, first = NULL, last = NULL)
{
  args <- list(given = given, family = family, middle = middle,
    email = email, role = role, comment = comment, first = first,
    last = last)
  if (all(vapply(args, is.null, NA)))
    return(.person())
  args <- lapply(args, .listify)
  args_length <- lengths(args)
  if (!all(args_length_ok <- args_length %in% c(1L, max(args_length))))
    warning(gettextf("Not all arguments are of the same length, the following need to be r
      paste(names(args)[!args_length_ok], collapse = ", "),
      domain = NA)
  args <- lapply(args, function(x) rep_len(x, max(args_length)))
  person1 <- function(given = NULL, family = NULL, middle = NULL,
    email = NULL, role = NULL, comment = NULL, first = NULL,
    last = NULL) {
    if (!.is_not_nonempty_text(first)) {
      if (!.is_not_nonempty_text(given))
        stop(gettextf("Use either %s or %s/%s but not both.",
          sQuote("given"), sQuote("first"), sQuote("middle")),
          domain = NA)
      warning(gettextf("It is recommended to use %s instead of %s.",
        sQuote("given"), sQuote("first")), domain = NA)
      given <- first
    }
    if (!.is_not_nonempty_text(middle)) {
      warning(gettextf("It is recommended to use %s instead of %s.",
        sQuote("given"), sQuote("middle")), domain = NA)
      given <- c(given, unlist(strsplit(middle, "[[:space:]]+"))))
    }
    if (!.is_not_nonempty_text(last)) {
      if (!.is_not_nonempty_text(family))
        stop(gettextf("Use either %s or %s but not both.",
          sQuote("family"), sQuote("last")), domain = NA)
      warning(gettextf("It is recommended to use %s instead of %s.",
        sQuote("family"), sQuote("last")), domain = NA)
      family <- last
    }
    if (.is_not_nonempty_text(given))
      given <- NULL
    if (.is_not_nonempty_text(family))
      family <- NULL
    if (.is_not_nonempty_text(email))
      email <- NULL
    if (.is_not_nonempty_text(role)) {
```



```
    if (!is.null(role))
      warning(sprintf(ngettext(length(role), "Invalid role specification",
        "Invalid role specifications: %s."), paste(sQuote(role),
          collapse = ", ")), domain = NA)
    role <- NULL
  }
  if (.is_not_nonempty_text(comment))
    comment <- NULL
  if (length(role))
    role <- .canonicalize_person_role(role)
  if (length(comment)) {
    ind <- grepl(sprintf("^https?://orcid.org/%s$", tools::.ORCID_id_regexp),
      comment)
    if (any(ind)) {
      if (is.null(names(comment)))
        names(comment) <- ifelse(ind, "ORCID", "")
      else names(comment)[ind] <- "ORCID"
    }
  }
  rval <- list(given = given, family = family, role = role,
    email = email, comment = comment)
  if (any(ind <- (lengths(rval) == 0L)))
    rval[ind] <- vector("list", length = sum(ind))
  if (all(vapply(rval, is.null, NA)))
    NULL
  else rval
}
force(person1)
rval <- lapply(seq_along(args$given), function(i) with(args,
  person1(given = given[[i]], family = family[[i]], middle = middle[[i]],
    email = email[[i]], role = role[[i]], comment = comment[[i]],
    first = first[[i]], last = last[[i]])))
.person(rval[!vapply(rval, is.null, NA)])
}
<bytecode: 0x13a1db6c0>
<environment: namespace:utils>
```