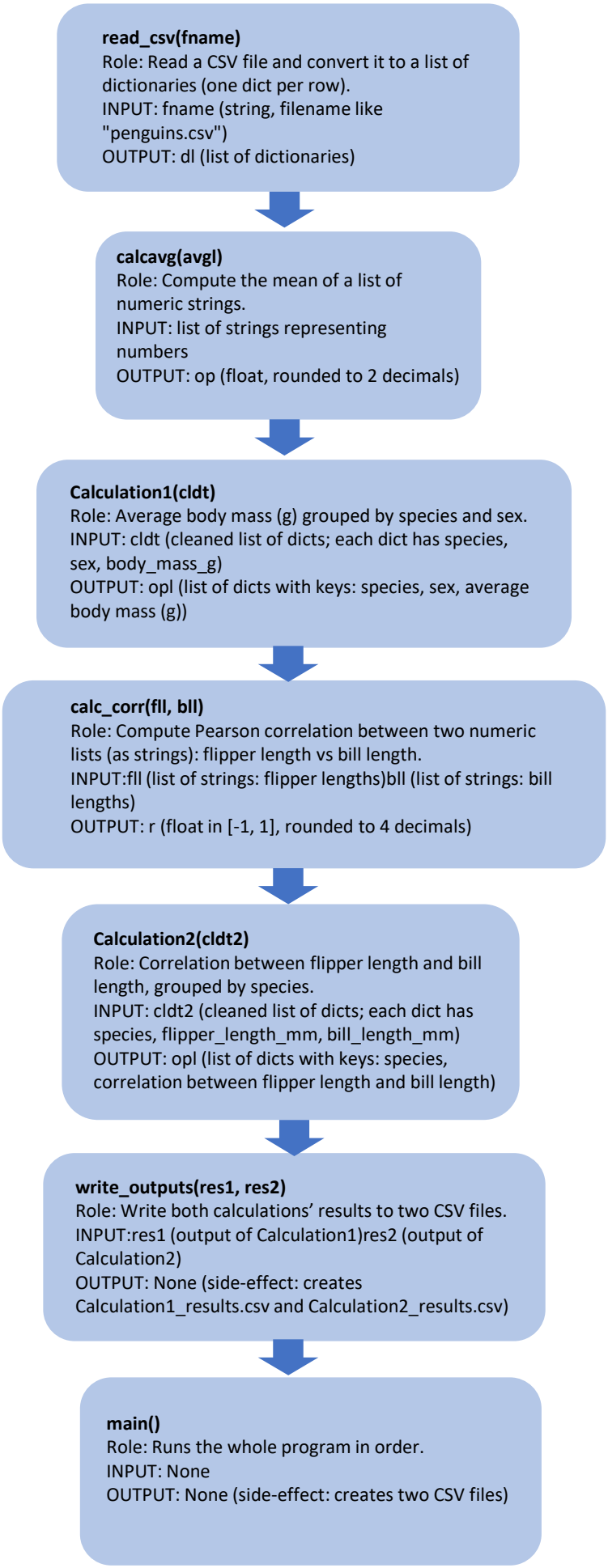
read_csv(fname)
Role: Read a CSV file and convert it to a list of dictionaries (one dict per row).
INPUT: fname (string, filename like "penguins.csv")
OUTPUT: dl (list of dictionaries)
calcavg(avgl)
Role: Compute the mean of a list of numeric strings.
INPUT: list of strings representing numbers
OUTPUT: op (float, rounded to 2 decimals)
Calculation1(cldt)
Role: Average body mass (g) grouped by species and sex.
INPUT: cldt (cleaned list of dicts; each dict has species, sex, body_mass_g)
OUTPUT: opl (list of dicts with keys: species, sex, average body mass (g))
calc_corr(fll, bll)
Role: Compute Pearson correlation between two numeric lists (as strings): flipper length vs bill length.
INPUT:fll (list of strings: flipper lengths)bll (list of strings: bill lengths)
OUTPUT: r (float in [-1, 1], rounded to 4 decimals)
Calculation2(cldt2)
Role: Correlation between flipper length and bill length, grouped by species.
INPUT: cldt2 (cleaned list of dicts; each dict has species, flipper_length_mm, bill_length_mm)
OUTPUT: opl (list of dicts with keys: species, correlation between flipper length and bill length)
write_outputs(res1, res2)
Role: Write both calculations' results to two CSV files.
INPUT:res1 (output of Calculation1)res2 (output of Calculation2)
OUTPUT: None (side-effect: creates Calculation1_results.csv and Calculation2_results.csv)
main()
Role: Runs the whole program in order.
INPUT: None
OUTPUT: None (side-effect: creates two CSV files)