

VPJEX Test 3 Prep

Question 1:

Write a function numberGame(limit, divisor1, divisor2) that performs the following:

- If any of the three arguments are **undefined**, prompt the user to enter values using `prompt()`.
- limit must be a **positive integer greater than 0**.
- divisor1 and divisor2 must be **integers greater than 1**.
- If **invalid values** are provided, display an `alert()` and **restart the function** (recursively).
- Loop from **1 to limit** and:
 - Print "**Alpha**" if the number is divisible by divisor1.
 - Print "**Beta**" if the number is divisible by divisor2.
 - Print "**AlphaBeta**" if the number is divisible by both.
 - Otherwise, print the number.
- Return the **count of numbers that printed "AlphaBeta"**.
- **Note:** Only the function should be submitted. Do not include code outside the function.

Question 2:

Student Age Tracker

Write a function named `ageTracker()` that prompts the user for student ages and returns basic statistics:

- Repeatedly prompt the user to enter an **age between 5 and 100** using `prompt()`.
- Stop when the user presses **Cancel**.
- Store only **valid numeric ages** in an array.
- After all input is done:
 - Print the **average**, **youngest**, and **oldest** ages using **template literals (String Interpolation)**.
 - Format the average to **two decimal places** using `.toFixed(2)`.
 - Return an **object** in the form: { avg, youngest, oldest, count }.
- **Note:** Only the function should be submitted. Anything outside the function will not be marked.

Question 3:

Simple List Manager

Build a small menu-driven console app named listManager() that allows users to manage a list of words interactively using only prompt() and alert(): **Note the list referred to here is an array.**

- Display the following menu inside a while(true) loop:
- Simple List Manager:
- 1. Add word
- 2. Remove last word
- 3. Show list & word count
- 4. Clear list
- 5. Quit
- Implement each option:
 - **Add word:** Prompt the user for a word (non-empty string) and add it to the list.
 - **Remove last word:** Remove the last word from the list.
 - **Show list & word count:**
 - Display all words separated by commas.
 - Show the total word count using alert().
 - **Clear list:** Empty the list completely.
 - **Quit:** Exit the loop and end the program.
- Store the list in a variable with **scope outside the loop** (module-level).