Practical Course: Logic App Development
Exercise sheet week 7

To be completed before 1st December 2023, 11am.

1. The solution to this week's task should be in a folder `week7` in your repository; copy all necessary parts from last week to a new project. If your app does not yet satisfy all the mandatory properties of weeks 3, 5 and 6, you also need to include the missing functionality. This week's task is to add routing and additional pages. The restrictions from week 6 still apply (separate files organized in directories, no stateful widgets, using riverpod state management).

   Your app should have 5 screens with the following properties:
   a) The dice, a button for 1000 throws, the total number of throws, and the current mode (equal distribution of the sum or not, no switch).
   b) The visualizations for the statistics, the total number of throws, and the current mode (equal distribution of the sum or not, no switch).
   c) The settings (reset button and switch for equal distribution of the sum) and the total number of throws. The reset should still ask for confirmation.
   d) The detailed statistical information for an individual combination of the dice (which combination, how often this combination was thrown, the maximal number of throws of any combination, the total number of throws, the sum of the current combination).
   e) The detailed statistical information for an individual sum of the dice (which sum, how often this sum was thrown, the maximal number of throws of any of the sums, the total number of throws).

   There should be a bottom navigation bar, see:

   `https://api.flutter.dev/flutter/material/BottomNavigationBar-class.html`

   The navigation between the screens a), b), and c) should be via this bottom navigation bar. Moreover, the undo action should also be accessible via the bottom navigation bar; it should not change the current screen/tab but only perform the undo action. It should be clear to the user if there is no further undo action available (the undo action should only be de-activated but it should not vanish). Within the screen for the visualizations, if the user taps on one of the squares, they should then be shown the detailed statistical information on a separate screen without the bottom navigation bar; there should be a back action which brings the user back to the previous screen/tab with the bottom navigation bar. All navigation between the different screens should be done using the package `go_router`:

   `https://pub.dev/packages/go_router`