Exercise 1.

Apply the equivalence partitioning black box technique to obtain the test cases for a software module that classifies individuals according to the following inputs:

- Code: string of 3 digits not starting with "00"
- Control character: A character in 'a'..'z' or character '-'
- Person Type: 'hired' or 'interim'

The expected output values are:

- "S1", if the code represents an even number and person is "hired".
- "S2", if the code represents an even number and person is "interim".
- "S3", if the code represents an odd number and person is "hired".
- "S4", if the code represents an odd number and person is "interim".
- "S5", if the control character is "-".
- "S6", otherwise.

Provide the equivalence partitioning table with the input variable, valid classes, invalid classes and heuristic applied. Also, provide two tables the resulting with test cases, one for valid classes and another for the invalid ones.

Exercise 2.

Applying the black box equivalence partitioning testing technique, obtain the test cases for the following software module that classifies individuals according to the following inputs:

- Creation date: string with format "dd-mm-yyyy" representing a valid date
- Type of person: "student" or "professor"

The expected output values are:

- "S1", if the month is 08 and the person is a student.
- "S2", if the month is not 08 and the person is a professor.
- "S3", if the person is student or professor.
- "S4", in any other correct case.
- "S5", in any other incorrect case.

Note. The order of evaluation (priority) of each output is S1..S5.

Provide the equivalence partitioning table with the input variable, valid classes, invalid classes and heuristic applied. Also, provide two tables the resulting with test cases, one for valid classes and another for the invalid ones.