

Black box testing

Equivalence Partitioning:

CPR Generation final digit:

Valid partition

Valid values are “male” and “female”

Valid values

“male” or “female”

Non-valid partitions

Strings other than male or female

Non-valid values

“, “other”, “unknown”

CPR Generation Length

Valid partition

Should be exactly 10 digits long

Valid values

“1234567890”

Non-valid partitions

CPR with more than 10 digits.

CPR with less than 10 digits.

Non-valid values

“123456789”

“12345678910”

Birth date generation:

Valid partition

Dates between “1900-01-01” and the current DATE, formatted as yyyy-mm-dd

Valid values

“1990-01-01”, “1985-12-31”

Non-valid partitions

Dates before “1900-01-01”

Dates after the current year

Non-valid values

“1899-12-31”

“2025-01-01”

Phone number

Valid partition

8-digit phone number

Valid values

“12121212”

Non-valid partitions

Phone number with less than 8 digits

Phone numbers with more than 8 digits

Non-valid values

“1234567”

“12345678”

Adress Generation:**Valid partition****Valid values****Non-valid partitions****Non-valid values**

Boundary Value Analysis:

CPR Final digit based on gender:**Valid boundary values:**

(valid) CPR for “female” should end with an even number (0,2,4,6,8)

(valid) CPR for “male” should end with odd number (1,3,5,7,9)

Invalid Boundary values:

(invalid) For “female” CPR ending in odd number (1,3,5,7,9)

(invalid) For “male” CPR ending in even number (0,2,4,6,8)

CPR length:**Valid boundary values:**

CPR must be 10 digits long

(valid) “1234567890”

Invalid Boundary values:

CPR with less than more 10 digits is invalid

(invalid) “123456789” (9 digits) or “12345678901” (11 digits)

Birth date generation**Valid boundary values:**

The birth date must be on or after January 1, 1900, and on or before the current "2023-12-31".

(valid lower boundary): "1900-01-01"

(valid upper boundary): "2023-12-31"

Invalid Boundary values:

Dates before "1900-01-01" and dates in the future "2025-01-01" are invalid.

(invalid lower boundary): "1899-12-31"

(invalid upper boundary): "2025-01-01"

Phone Number Generation**Valid Boundary Values**

The phone number must be exactly 8 digits long.

(valid): "29876543"

Invalid Boundary Values

Phone numbers with less than or more than 8 digits are invalid.

(invalid length) "2987654" (7 digits), "298765432" (9 digits)