Equivalence Partitioning

Input partitions of: **Phone Number**

Valid partition	Valid values
String of 11 characters	+4522443322
Number of 8 length	22443322

Non-valid partition	Non-valid values
Empty string	""
String of 1-10 characters	2
String of 12-infinity characters	1234567891234
Number of 1-7 length	2020202
Number of 9-infinity length	202020202

Input partitions of: **Email**

Valid partition	Valid values
String of 5-50 characters, must have @, a valid domain and this structure name@domain.com	mikkel@hej.dk

Non-valid partition	Non-valid values
Strings without an @ symbol.	johndoe.com
Strings without a domain or extension (e.g., john.doe@).	johndoe@
Strings with special characters in invalid positions (e.g., john..doe@example.com).	john?doe@gmail.com
Empty strings	""

Input partitions of: **Password**

Valid partition	Valid values
Strings of 8-20 characters, with at least 1 uppercase, 1 lowercase, 1 digit and 1 special character	12345aB%

Non-valid partition	Non-valid values
String of 1-7	1234567
Strings longer than 20 characters	ThisIsAVeryLongPassword123@
Strings without an uppercase letter	super%123
Strings without an lowercase letter	SUPER%123
Strings without a digit	Batman%&
Strings without a special character	Batman123
Empty strings	""

Input partitions of: **Date of Birth**

Valid partition	Valid values
Date format must be dd-mm-yyyy and a person's age must be between 16-100	01/01/2000

Non-valid partition	Non-valid values
Age below 16	25/12/2008
Age is over 100	15/11/1922
Future dates	02/04/2026
Empty strings	""

Boundary value analysis

2 boundary values:

Phone number

Valid lower boundary	20202020
Invalid lower boundary	2020202
Valid upper boundary	+4520202020
Invalid upper boundary	+45202020202

Email

Valid lower boundary	a@b.io
Invalid lower boundary	a@b
Valid upper boundary	toolongemailaddress1234567891234@toolongdomain.com
Invalid upper boundary	verylongemailaddress123456789@longdomainname123456789.com

Password

Valid lower boundary	Abc@1234
Invalid lower boundary	Abc@12
Valid upper boundary	StrongPassword123!
Invalid upper boundary	VeryStrongPassword1234!#

Date of Birth

Valid lower boundary	01/01/1924
Invalid lower boundary	01/01/1900
Valid upper boundary	01/01/2008
Invalid upper boundary	01/01/2010

3 boundary values

Password

Valid lower boundary	Abc@1234
Valid lower boundary	Abcd@1234
Invalid lower boundary	Abc@123
Valid upper boundary	StrongPassword1!
Valid upper boundary	StrongPassword12!
Invalid lower boundary	ThisPasswordIsTooLong1!

Date of Birth

Valid lower boundary	13/01/1925
Valid lower boundary	13/01/1926
Invalid lower boundary	12/01/1924
Valid upper boundary	13/01/2009
Valid upper boundary	13/01/2008
Invalid lower boundary	14/01/2009