**Black-Box Testing**

1. Equivalence-partitioning testing

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| **Input** | **Valid Equivalence Classes** | **Invalid Equivalence Classes** |
| A registration number of the format x-123, such that:   * x -- lower-case letter; * (-) required to separate the letter from the numbers; * 123 -- three single digits; and * 10 < (1+2+3) < 20 | [y – 290 , y – 298]  [a – 281 , g – 281]  [a – 290 , g – 298] | [y – 280 , y – 398]  [x – 271 , x – 488]  [A – 281 , E – 288]  [F – 290 , U – 298]  [z – 777 , z – 999 ]  [z – 117 , z – 441 ]  [w-66, w-99]  [w290 , w298] |

1. Boundary value analysis

|  |  |
| --- | --- |
| **Input** | **Boundary cases** |
| A registration number of the format x-123, such that:   * x -- lower-case letter; * (-) required to separate the letter from the numbers; * 123 -- three single digits; and * 10 < (1+2+3) < 20 | y – 290, y – 289, y – 288  a – 380, z – 380, y– 380  e – 199, f – 198, g – 197 |