| perfect() | | | |
| --- | --- | --- | --- |
| equivalence class | boundary value | | valid return |
| a < 1 | 0 | | throws IllegalArgumentException |
| a = 1 | 1 | | false (1 is not perfect) |
| perfect numbers | 6 | | true (6 is perfect) |
| non-perfect numbers | 7 | | false (7 is not perfect) |
|  | | | |
| **getFactors()** | | | |
| equivalence class | boundary value | | valid return |
| a > 1 | 2 | | [1] |
| a = 1 | 1 | | [] (empty list) |
| a = 0 | 0 | | [] (empty list) |
| a < 0 | -1 | | throws IllegalArgumentException |
| (value with several factors) | (sample value): 12 | | [1,2,3,4,6] |
|  | | | |
| **factors()** | | | |
| equivalence class | boundary value | | valid return |
| a < 0 or b < 0 | | a = -1, b = -1 | throws IllegalArgumentException |
| b = 0 | | a = 1, b = 0 | divByZero! (possible crash, no catch) |
| a = 0 and b > 0 | | a = 0, b = 5 | true |
| a > 0 and b > 0 | | a = 20, b = 7 | false |
| a > 0 and b > 0 | | a = 51, B = 3 | true |