| 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 and b > 1 | a = -1, b = 5 | throws IllegalArgumentException |
| a > 0 and b < 1 | a = 5, b = 0 | throws IllegalArgumentException |
| a > 0 and b > 1 | a = 4, b = 2 | should not throw exception |
| a > 0 and b > 1 | a = 10, b = 2 | true (2 is a factor of 10) |
| a > 0 and b > 1 | a = 10, b = 4 | false (4 is not a factor of 10) |