| 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 |
| (complete this) |  |  |

| 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 < 0 | -1 | throws IllegalArgumentException |
| a = 0 | 0 | [ ] (empty list) |
| a = 1 | 1 | [1] |
| a > 1 (non-prime) | (sample value) 24 | [1, 2, 3, 4, 6, 8, 12] |
| a > 1 (prime) | (sample value) 37 | [1] |
|  | | |
| **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 |