**TEST PLAN**

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| **ID** | **DESCRIPTION** | **PRE-CONDITION** | **EXPECTED INPUT** | **EXPECTED OUTPUT** | **ACTUAL OUTPUT** |
| **01\_TP\_01** | Testing with a prime number | The number must be positive | 1 | The number is prime |  |
| **01\_TP\_02** | Testing with a non- prime number | The number must be positive | 48 | The number is not prime |  |
| **02\_TP\_01** | Testing with an Armstrong number | The number must be positive | 153 | The number is Armstrong |  |
| **02\_TP\_02** | Testing with non- Armstrong number | The number must be positive | 15 | The number is not Armstrong |  |
| **03\_TP\_01** | Testing with an even number | The number must be positive | 2 | The number is Even |  |
| **03\_TP\_02** | Testing with an odd number | The number must be positive | 5 | The number is Odd |  |
| **04\_TP\_01** | Testing with a palindrome number | The number must be positive | 1551 | The number is Palindrome |  |
| **04\_TP\_02** | Testing with a number which is not a palindrome | The number must be positive | 15 | The number is not Palindrome |  |
| **05\_TP\_01** | Testing with a number which is a power of 2 | The number must be positive | 4 | The number is a power of 2 |  |
| **05\_TP\_02** | Testing with a number which is not a power of 2 | The number must be positive | 5 | The number is not a power of 2 |  |
| **06\_TP\_01** | Testing with a Harshad number | The number must be positive | 156 | The number is Harshad |  |
| **06\_TP\_02** | Testing with a non- Harshad number | The number must be positive | 15 | The number is not harshad |  |
| **07\_TP\_01** | Testing with a perfect square | The number must be positive | 25 | The number is a perfect square |  |
| **07\_TP\_02** | Testing with a number which is not a perfect square | The number must be positive | 8 | The number is not a perfect square |  |
| **08\_TP\_01** | Testing with a perfect cube | The number must be positive | 8 | The number is a perfect cube |  |
| **08\_TP\_02** | Testing with a number which is not a perfect cube | The number must be positive | 5 | The number is not a perfect cube |  |
| **09\_TP\_01** | Testing with an automorphic number | The number must be positive | 5 | The number is automorphic |  |
| **09\_TP\_02** | Testing with a non- automorphic number | The number must be positive | 78 | The number is not automorphic |  |
| **10\_TP\_01** | Testing with a number divisible by 3 | The number must be positive | 6 | The number is divisible by 3 |  |
| **10\_TP\_02** | Testing with a number not divisible by 3 | The number must be positive | 7 | The number is not divisible by 3 |  |
| **11\_TP\_01** | Testing with a number divisible by 5 | The number must be positive | 25 | The number is divisible by 5 |  |
| **11\_TP\_02** | Testing with a number not divisible by 5 | The number must be positive | 8 | The number is not divisible by 5 |  |
| **12\_TP\_01** | Testing with a number divisible by 7 | The number must be positive | 49 | The number is divisible by 7 |  |
| **12\_TP\_02** | Testing with a number not divisible by 7 | The number must be positive | 8 | The number is not divisible by 7 |  |