Test Plan

# Unit Tests:

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| **Testing:** | **Input** | **Expected Output:** |
| Max Number: | 2 147 483 647.99 | Two Billion One Hundred and Forty Seven Million Four Hundred and Eighty Three Thousand Six Hundred and Forty Seven Dollars and Ninety Nine Cents |
| Minimum Number: | 0.00 | Zero Dollars and Zero Cents |
| One Decimal Place: | 123.5 | incorrectCentsFormatException |
| Negative Number: | -125.87 | NegativeNumberException |
| Trailing Zeros: (Leading One’s) | 1 000 000 000.00 | One Billion Dollars and Zero Cents |
| 100 000 000.00 | One Hundred Million Dollars and Zero Cents |
| 10 000 000.00 | Ten Million Dollars and Zero Cents |
| 1 000 000.00 | One Million Dollars and Zero Cents |
| 100 000.00 | One Hundred Thousand Dollars and Zero Cents |
| 10 000.00 | Ten Thousand Dollars and Zero Cents |
| 1 000.00 | One Thousand Dollars and Zero Dollars |
| 100.00 | One Hundred Dollars and Zero Cents |
| 10.00 | Ten Dollars and Zero Cents |
| 1.00 | One Dollar and Zero Cents |
| Trailing Zeros: (Leading Nine’s) | 9 000 000 000.00 | Nine Billion Dollars and Zero Cents |
| 900 000 000.00 | Nine Hundred Million Dollars and Zero Cents |
| 90 000 000.00 | Nine Million Dollars and Zero Cents |
| 9 000 000.00 | Nine Million Dollars and Zero Cents |
| 900 000.00 | Nine Hundred Thousand Dollars and Zero Cents |
| 90 000.00 | Nine Thousand Dollars and Zero Cents |
| 9 000.00 | Nine Thousand Dollars and Zero Dollars |
| 900.00 | Nine Hundred Dollars and Zero Cents |
| 90.00 | Ninety Dollars and Zero Cents |
| 9.00 | Nine Dollar and Zero Cents |
| Trailing Zeros: (Leading Five’s) | 5 000 000 000.00 | Five Billion Dollars and Zero Cents |
| 500 000 000.00 | Five Hundred Million Dollars and Zero Cents |
| 50 000 000.00 | Five Million Dollars and Zero Cents |
| 5 000 000.00 | Five Million Dollars and Zero Cents |
| 500 000.00 | Five Hundred Thousand Dollars and Zero Cents |
| 50 000.00 | Five Thousand Dollars and Zero Cents |
| 5 000.00 | Five Thousand Dollars and Zero Dollars |
| 500.00 | Five Hundred Dollars and Zero Cents |
| 50.00 | Fifty Dollars and Zero Cents |
| 5.00 | Five Dollar and Zero Cents |
| Billions() Test | 1 234 567 891.56 | One Billion Two Hundred and Thirty Four Million Five Hundred and Sixty Seven Thousand Eight Hundred and Ninety One Dollars and Fifty Six Cents |
| 1 034 567 891.56 | One Billion Thirty Four Million Five Hundred and Sixty Seven Thousand Eight Hundred and Ninety One Dollars and Fifty Six Cents |
| 1 004 567 891.56 | One Billion Four Million Five Hundred and Sixty Seven Thousand Eight Hundred and Ninety One Dollars and Fifty Six Cents |
| 1 000 567 891.56 | One Billion Five Hundred and Sixty Seven Thousand Eight Hundred and Ninety One Dollars and Fifty Six Cents |
| 1 000 067 891.56 | One Billion and Sixty Seven Thousand Eight Hundred and Ninety One Dollars and Fifty Six Cents |
| 1 000 007 891.56 | One Billion and Seven Thousand Eight Hundred and Ninety One Dollars and Fifty Six Cents |
| 1 000 000 891.56 | One Billion Eight Hundred and Ninety One Dollars and Fifty Six Cents |
| 1 000 000 091.56 | One Billion and Ninety One Dollars and Fifty Six Cents |
| 1 000 000 001.56 | One Billion and One Dollars and Fifty Six Cents |
| 1 000 000 000.56 | One Billion Dollars and Fifty Six Cents |
| 1 000 000 000.06 | One Billion and Six Cents |
| HundredMillions() Test | 123 456 789.99 | One Hundred and Twenty Three Million Four Hundred and Fifty Six Thousand Seven Hundred and Eighty Nine Dollars and Ninety Nine Cents |
| 103 456 789.99 | One Hundred and Three Million Four Hundred and Fifty Six Thousand Seven Hundred and Eighty Nine Dollars and Ninety Nine Cents |
| 100 456 789.99 | One Hundred Million Four Hundred and Fifty Six Thousand Seven Hundred and Eighty Nine Dollars and Ninety Nine Cents |
| 100 056 789.99 | One Hundred Million Fifty Six Thousand Seven Hundred and Eighty Nine Dollars and Ninety Nine Cents |
| 100 006 789.99 | One Hundred Million Six Thousand Seven Hundred and Eighty Nine Dollars and Ninety Nine Cents |
| 100 000 789.99 | One Hundred Million Seven Hundred and Eighty Nine Dollars and Ninety Nine Cents |
| 100 000 089.99 | One Hundred Million and Eighty Nine Dollars and Ninety Nine Cents |
| 100 000 009.99 | One Hundred Million and Nine Dollars and Ninety Nine Cents |
| 100 000 000.99 | One Hundred Million Dollars and Ninety Nine Cents |
| 100 000 000.09 | One Hundred Million Dollars and Nine Cents |
| TenMillions() Test | 12 345 678.99 | Twelve Million Three Hundred and Forty Five Thousand Six Hundred and Seventy Eight Dollars and Ninety Nine Cents |
| 10 345 678.99 | Ten Million Three Hundred and Forty Five Thousand Six Hundred and Seventy Eight Dollars and Ninety Nine Cents |
| 10 045 678.99 | Ten Million and Forty Five Thousand Six Hundred and Seventy Eight Dollars and Ninety Nine Cents |
| 10 005 678.99 | Ten Million and Five Thousand Six Hundred and Seventy Eight Dollars and Ninety Nine Cents |
| 10 000 678.99 | Ten Million Six Hundred and Seventy Eight Dollars and Ninety Nine Cents |
| 10 000 078.99 | Ten Million and Seventy Eight Dollars and Ninety Nine Cents |
| 10 000 008.99 | Ten Million and Eight Dollars and Ninety Nine Cents |
| 10 000 000.99 | Ten Million Dollars and Ninety Nine Cents |
| 10 000 000.09 | Ten Million Dollars and Nine Cents |
| Millions() Test: | 1 234 567.89 | One Million Two Hundred and Thirty Four Thousand Five Hundred and Sixty Seven Dollars and Eighty Nine Cents |
| 1 034 567.89 | One Million and Thirty Four Thousand Five Hundred and Sixty Seven Dollars and Eighty Nine Cents |
| 1 004 567.89 | One Million and Four Thousand Five Hundred and Sixty Seven Dollars and Eighty Nine Cents |
| 1 000 567.89 | One Million Five Hundred and Sixty Seven Dollars and Eighty Nine Cents |
| 1 000 067.89 | One Million and Sixty Seven Dollars and Eighty Nine Cents |
| 1 000 007.89 | One Million and Seven Dollars and Eighty Nine Cents |
| 1 000 000.89 | One Million Dollars and Eighty Nine Cents |
| 1 000 000.09 | One Million Dollars and Nine Cents |
| HundredThousnads() Test: | 123 456.78 | One Hundred and Twenty Three Thousand Four Hundred and Fifty Six Dollars and Seventy Eight Cents |
| 103 456.78 | One Hundred and Three Thousand Four Hundred and Fifty Six Dollars and Seventy Eight Cents |
| 100 456.78 | One Hundred Thousand Four Hundred and Fifty Six Dollars and Seventy Eight Cents |
| 100 056.78 | One Hundred Thousand and Fifty Six Dollars and Seventy Eight Cents |
| 100 006.78 | One Hundred Thousand and Six Dollars and Seventy Eight Cents |
| 100 000.78 | One Hundred Thousand Dollars and Seventy Eight Cents |
| 100 000.08 | One Hundred Thousand Dollars and Eight Cents |
| TenThousands() Test: | 12 345.67 | Twelve Thousand Three Hundred and Forty Five Dollars and Sixty Seven Cents |
| 10 345.67 | Ten Thousand Three Hundred and Forty Five Dollars and Sixty Seven Cents |
| 10 045.67 | Ten Thousand and Forty Five Dollars and Sixty Seven Cents |
| 10 005.67 | Ten Thousand and Five Dollars and Sixty Seven Cents |
| 10 000.67 | Ten Thousand Dollars and Sixty Seven Cents |
| 10 000.07 | Ten Thousand Dollars and Seven Cents |
| Thousands() Test: | 1 234.56 | One Thousand Two Hundred and Thirty Four Dollars and Fifty Six Cents |
| 1 034.56 | One Thousand and Thirty Four Dollars and Fifty Six Cents |
| 1 004.56 | One Thousand and Four Dollars and Fifty Six Cents |
| 1 000.56 | One Thousand Dollars and Fifty Six Cents |
| 1 000.06 | One Thousand Dollars and Six Cents |
| Hundreds() Test: | 123.45 | One Hundred and Twenty Three Dollars and Forty Five Cents |
| 103.45 | One Hundred and Three Dollars and Forty Five Cents |
| 100.45 | One Hundred Dollars and Forty Five Cents |
| 100.05 | One Hundred Dollars and Five Cents |
| Tens() Test: | 12.34 | Twelve Dollars and Thirty Four Cents |
| 10.34 | Ten Dollars and Thirty Four Cents |
| 10.04 | Ten Dollars and Four Cents |
| Singles() Test: | 1.23 | One Dollar and Twenty Three Cents |
|  | 0.23 | Zero Dollars and Twenty Three Cents |
|  | 0.03 | Zero Dollars and Three Cents |
| Cents() Test: | 12.00 | Twelve Dollars and Zero Cents |