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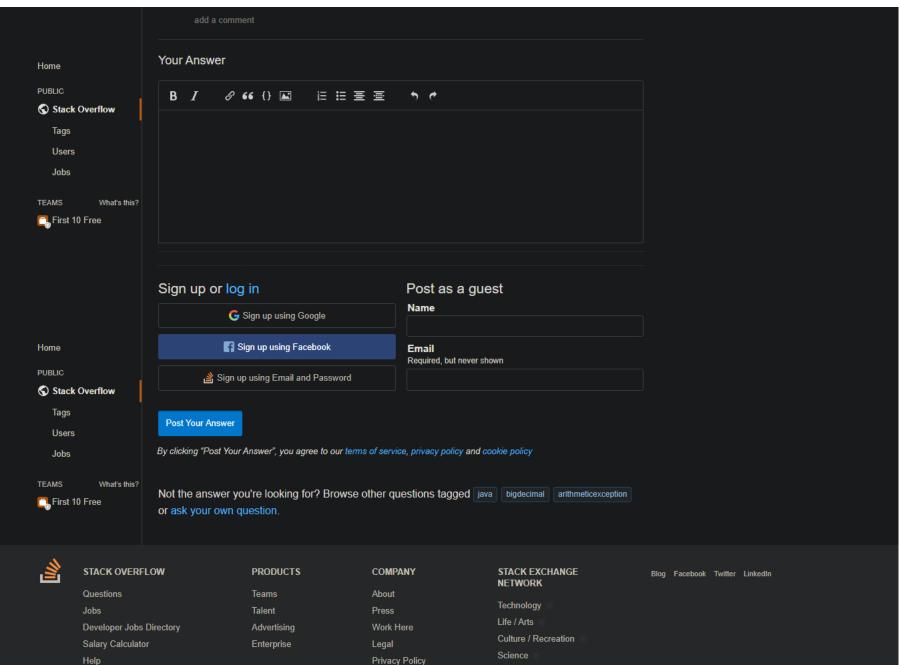
Stack Overflow

Stack Overflow

```
yearsInRetirement.divide(new BigDecimal("12"), new MathContext(2, RoundingMode
   Tags
                                           System.out.println(name+ " will have f" + monthlyPension +" per month for retirement")
   Users
                                   public static void recalculate (BigDecimal fundAmount, BigDecimal rate){
                                           fundAmount.multiply(rate.add(new BigDecimal("1.00")));
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                                  Add MathContext object in your divide method call and adjust precision and rounding mode. This
                                  should fix your problem
                                  share improve this answer
                                                                            edited May 23 '17 at 11:55
                                                                                                         answered Jun 20 '16 at 16:53
                                                                             Community ◆
                                                                                                          Poorna Chander
                                                                                  1 • 1
                                  It is because the Bigdecimal has no lost, and if you divide 1/3 for example, it will result in a repeating
                                  decimal to infinity. 0.33333333... theoretically if you multiply back, you receive the exact result. But, an
                                  infinity number will generate stack over flow and in this case the exception is launched.
                                  a solution:
                                    try {
                                        result = n1.divide(n2);
                                    } catch (ArithmeticException e){
                                        Log.d("Error bigdecimal", e.toString());
                                        result = (n1.doubleValue() / n2.doubleValue());
                                  or
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                                   n1.divide(n2,RoundingMode.HALF UP);
Stack Overflow
                                  in this case your result will not be cut by Rounding
   Tags
                                  share improve this answer
                                                                            edited Mar 21 at 4:18
                                                                                                         answered Oct 27 '16 at 1:00
   Users
                                                                                                               Leo Lima
   Jobs
                                  3 This is a 'gambiarra'. Please use the solution with RoundingMode. - Willian Crozeta Jun 6 '17 at 14:29
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                                  Your program does not know what precision for decimal numbers to use so it throws:
                                   java.lang.ArithmeticException: Non-terminating decimal expansion
                                  Solution to bypass exception:
                                   MathContext precision = new MathContext(int setPrecisionYouWant); // example 2
                                   BigDecimal a = new BigDecimal("1.6",precision);
                                   BigDecimal b = new BigDecimal("9.2",precision);
                                   a.divide(b) // result = 0.17
```

answered Jun 29 '18 at 9:48 Miloš Ojdanić

share improve this answer



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