Group 1

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Score: 7 Time: 100000000

```
private int compareFractionAndDecimal(String fraction,String decimal) {{
    String[] saFrac = fraction.split("/");
    int compare = new BigDecimal(saFrac[0]).divide(new BigDecimal(saFrac[1]), 300, RoundingMode.HALF_UP).compareTo(new BigDecimal(decimal));

if(compare == 0) {
    if(saFrac[0].charAt(0) == '-' ) {
        return -1;
    } else {
        return 1;
    }
}

private int compareFractions(String fraction1, String fraction2) {
    String[] sal = fraction1.split("/");
    String[] sal = fraction2.split("/");
    int compare = (new BigDecimal(sal[0]).divide(new BigDecimal(sal[1]), 300, RoundingMode.HALF_UP).compareTo(new BigDecimal(sa2[0]).divide(new BigDecimal(sa2[1]), 300, RoundingMode.HALF_UP)));
}
```

Same worst case as Group 0, nlgn

```
String[] sa1 = fraction1.split("/");
String[] sa2 = fraction2.split("/");

double divided1 = Double.parseDouble(sa1[0]) / Integer.parseInt(sa1[1]);
double divided2 = Double.parseDouble(sa2[0]) / Integer.parseInt(sa2[1]);

if(numberOfDigits(divided1) > 8 || numberOfDigits(divided2) > 8) {
    return oldCompareFractions(fraction1, fraction2);
}
```