Problem 6: Sum Words

Consider the sum

```
   M A J O R
 +M I N O R
 -----------
   R E S U M E
```

where each letter in the equation represents a digit in base 10, with distinct letters representing distinct digits. What is the largest number that the word `RESUME` can represent and still have the equation true?

As always, show your work, fully explain and justify your answer. A solution mainly obtained by computers or calculators will not be accepted.