- Look up SMOTE oversampling
 https://imbalanced.loorn.org/oteble/references/generated/imbalanced/imba
 - https://imbalanced-learn.org/stable/references/generated/imblearn.over_sampling.SMOT_E.html .
 - a. Describe what it is in your own words in markdown.
 - b. Use this technique with the diabetes dataset. Comment on the model performance compared to other methods. Make sure you are clear about why you chose the performance metric you did.
- 2. Create a function called rec_digit_sum that takes in an integer. This function is the recursive sum of all the digits in a number.

Given n, take the sum of all the digits in n. If the resulting value has more than one digit, continue calling the function in this way until a single-digit number is produced. The input will be a non-negative integer, and this should work for extremely large values as well as for single-digit inputs.

Examples:

```
16 --> 1 + 6 = 7

942 --> 9 + 4 + 2 = 15 --> 1 + 5 = 6

132189 --> 1 + 3 + 2 + 1 + 8 + 9 = 24 --> 2 + 4 = 6

493193 --> 4 + 9 + 3 + 1 + 9 + 3 = 29 --> 2 + 9 = 11
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