It is a well known fact in a First Year Calculus course one gets a question like :

$$\int_{a}^{b} x^{c} dx = \begin{cases} \frac{b^{c+1} - a^{c+1}}{c+1}, & \text{if } c \neq -1\\ (b \ln b - a \ln a) - (b-a), & \text{if } c = -1 \text{ and } a, b > 0 \end{cases},$$

with some simple choices of the parameters a, b and c.

I want the question to be set with parameters, the parameters being a, b, c, as above and the answers being also set parametrically. For example, I have attached a Python code which achieves this, i.e., each run of the program produces a IATEX code for the question with random choices of the parameters and answers accordingly.

**My Question**: Shall it be possible to include this facility into AMC? For instance, the **onecopy** only shuffles the same answers; here alongwith it I want different versions of the paper with **onecopy** to have different values of the parameters a, b and c, so that the question papers not only have the choices shuffled but the content also different. So, to produce this one needs to have each run of **onecopy** to be preceded by a Python Code like this where the parameters are passed, which is to be taken in by the run of **onecopy**.

The Python program and its output is attached herewith.