QUIZ 5

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$ python3 quiz_5.py
Enter two integers between 1946 and 2021: 2015 2015
Enter a real between 0 and 1: 0.2
No name was given as both female and male names between 2015 and 2015
  with a proportion of at least 0.2 as a (female or male) name.
$ python3 quiz_5.py
Enter two integers between 1946 and 2021: 2015 2015
Enter a real between 0 and 1: 0.001
0.00047532769756691243 is the smallest difference in absolute value
  between the proportion of a name as a female name
  and the proportion of that name as a male name,
  the proportion of that name as a (female or male) name
  being at least 0.001.
It applies to the following name(s).
  - Hayden, with the following proportions:
    * 0.000959828027539379 as a female name;
    * 0.0014351557251062914 as a male name;
    * 0.0012059440217989665 as a (female or male) name.
$ python3 quiz_5.py
Enter two integers between 1946 and 2021: 2015 2020
Enter a real between 0 and 1: 0.02
No name was given as both female and male names between 2015 and 2020
  with a proportion of at least 0.02 as a (female or male) name.
$ python3 quiz_5.py
Enter two integers between 1946 and 2021: 2015 2020
Enter a real between 0 and 1: 0.0002
7.074193756652591e-05 is the smallest difference in absolute value
  between the proportion of a name as a female name
  and the proportion of that name as a male name,
  the proportion of that name as a (female or male) name
  being at least 0.0002.
It applies to the following name(s).
  - Armani, with the following proportions:
    * 0.0002798925212718316 as a female name;
    * 0.0003506344588383575 as a male name;
    * 0.000316463924996825 as a (female or male) name.
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Date: Trimester 2, 2023.

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$ python3 quiz_5.py
Enter two integers between 1946 and 2021: 2000 1950
Enter a real between 0 and 1: 0.000000001
6.520270074359337e-11 is the smallest difference in absolute value
  between the proportion of a name as a female name
  and the proportion of that name as a male name,
  the proportion of that name as a (female or male) name
  being at least 1e-09.
It applies to the following name(s).
  - Jacquell, with the following proportions:
    * 1.6676948561353025e-07 as a female name;
    * 1.6683468831427384e-07 as a male name;
    * 1.6680313225504508e-07 as a (female or male) name.
  - Kimoni:
    * same proportion as a female name;
    * same proportion as a male name;
    * same proportion as a (female or male) name.
  - Parminder:
    * same proportion as a female name;
    * same proportion as a male name;
    * same proportion as a (female or male) name.
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