BIS 420 PROGRAMMING FOR DATA SCIENCE

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CHAPTER 10 EXERCISE 10.8
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The (so-called) Birthday Paradox:
1. Write a function called has_duplicates that takes a list and returns True if there is any element that appears more than once. It should not modify the original list.
2. If there are 23 students in your class, what are the chances that two of you have the same birthday? You can estimate this probability by generating random samples of 23 birthdays and checking for matches. Hint: you can generate random birthdays with the randint function in the random module.
You can read about this problem at http: // en. wikipedia. org/ wiki/ Birthday_ paradox , and you can download my solution from http: // thinkpython. com/ code/ birthday. py .