List Handling

Set A

1. Write a Python program to find the list of words that are longer than n from a given list of words.

Input: long\_words(3, "The quick brown fox jumps over the lazy dog")

Output: ['quick', 'brown', 'jumps', 'over', 'lazy']

1. Write a Python program to create a list by concatenating a given list which range goes from 1 to n.    
   Sample list : ['p', 'q']  
   n =5  
   Sample Output : ['p1', 'q1', 'p2', 'q2', 'p3', 'q3', 'p4', 'q4', 'p5', 'q5']

Set B

1. Write a program to check whether a word is present in the word list or not. Accept wordlist from end user. Sort them alphabetically. Implement bisect function which simulates binary search. You start in the middle and check to see whether the word you are looking for comes before the word in the middle of the list. If so, search the first half of the list the same way. Otherwise, you Search the second half.
2. If there are 23 students in a class, what are the chances that two of you have the same birthday? You can estimate the probability by generating random samples of 23 birthdays and checking for matches.

Hint: To generate random birthdays, use randint function from random module