

Computer Programming Lab

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It is often the case that a program cannot determine that it has read enough input until it has really read too much. One example is when asked to read the characters that make a number. So, unless the first non-digit character is seen the number is not complete. The problem could be solved if it was possible to “unread” the non-digit character.

Write a pair of functions:

getch: It delivers the next input character to be considered.

ungetch: It helps to store the character to be put back to the input. Next time when getch is invoked, it delivers this extra character.

(Hint: Maintain a shared buffer)

Maintain a dictionary of hundred words (For now keep the dictionary static). Using the above functions, implement a function **getword** to read a paragraph comprising of words separated by blanks. Your **getword** function should be able to skip the blanks and just pick out the word. Once you get a word, search the word in the dictionary and check whether the word exists. Finally compute the most frequently occurring word in the paragraph, which also occurs in the dictionary.