Random-Access Files

Week 13
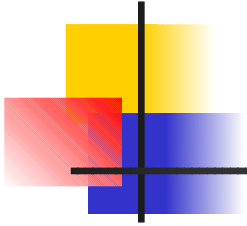
{C++}

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Assignment

- Write a program to count the number of occurrences of each word in a file

  —Use a C++ structure to store each word and its count

  ```
  #define MAXWORDLENGTH 255
  struct dictionary {
      char word[MAXWORDLENGTH];
      unsigned int count;
  };
  ```

—Sort the dictionary list by "count" in a descending order

—Write results to a binary file "dict.dat"

—When process a new file, you must read the dict.dat fisrt. Accumulative counts of each word in the new file, or add new words to the dictionary list , and finally update "dict.dat"

The Rule of "Word"

- All of the character is lower case.
- Should not contain any special characters, digits, symbols or spaces
- If a word contain these characters, remove them.

Haswell ⟶ haswell

system-on-a-chip ⟶ systemonachip

we're ⟶ were