Homework:

1. Write a code to read a whole file into the memory and then Count how many words there are in the file, words are separated by space, newlines(\r , \n).
2. Create two matrices, A and B, both are 10 by 10. Write a code to initialize the two matrices by:

   A[i][j] = i+j+1.0;
   B[i][i] = 1/(i+j+1.0);

   and write A and B into a binary file "matrices.dat".

3. Write a code to read "matrices.dat" into matrices A and B, multiply A and B to get matrix C. Print out the average of all elements of C to a text file.

Total there are 3 programs. Please zip all these source code files and output files, and possible any report. And please submit it into the Blackboard.

Please be careful, you only have one time chance to submit your homework. And no late submissions will be accepted.