## Pa2-2-2016 Problem

A hash function is any function that can be used to map data of arbitrary size (e.g. a string of variable length) to data of fixed size (e.g. in integers). The values returned by a hash function are called hash values. Develop a program to take as input a hash value, h and a list of strings, and output which of the input string map to h when a string is hashed with the following steps.

- 01.Both lowercase and uppercase letters are assigned values as follows (e.g. a=1, b=1...) any digit assigned value I (e.g. "8" gets 8) any other symbols in the string are ignored.
- 02. Obtain the product p of the value in step 1.
- 03. The hash value is obtained as follows. Where p is the product in step 2 above hash value = (p+743)%8887

Example "pp2" 16\*16\*2=p=215

Hash value (512+743) %8887=1255

You must get file name as input.

Input\_1.txt 1255

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**Programming** 

pp2