Expected Behaviour

The input is any standard text file, and the output is a non-graphical histogram of the frequencies of word lengths found in the given file.

The output follows the format of “Count[x]=y”, where ‘x’ is the length of the words and ‘y’ is how many words have that length. Capitalization matters, and the program does not check for real words.

Input 1 – t04.txt

Output:

```
vagrant@ubuntu-bionic:~/bwadey/a3/src$ ./word_count --infile ../cases/t04.txt
Count[02]=01; (words: "ya")
Count[03]=04; (words: "The", "dog", "fox" and "the")
Count[04]=02; (words: "lazy" and "over")
Count[05]=03; (words: "brown" and "quick")
Count[06]=02; (words: "foxily" and "jumped")
```

Input 2 – t05.txt

Output:

```
vagrant@ubuntu-bionic:~/bwadey/a3/src$ ./word_count --infile ../cases/t05.txt
Count[02]=04; (words: "is", "of" and "to")
Count[03]=05; (words: "aid", "all", "for" and "the")
Count[04]=04; (words: "This", "come", "good" and "time")
Count[06]=02; (words: "people" and "theiry")
Count[07]=01; (words: "country")
Count[11]=01; (words: "Shakespeare")
```

Input 3 – biglines.txt

Output:

```
vagrant@ubuntu-bionic:~/bwadey/a3/src$ ./word_count --infile ../cases/biglines.txt
Count[02]=03; (words: "ff", "gg" and "hh")
Count[03]=05; (words: "777", "kkk", "111" and "www")
Count[04]=07; (words: "eeee", "last", "mmmm", "uuuu", "xxxx" and "zzzz")
Count[10]=01; (words: "aaaaaaaaaa")
```

Input 4 – bigwords.txt

Output:

```
vagrant@ubuntu-bionic:~/bwadey/a3/src$ ./word_count --infile ../cases/bigwords.txt
Count[01]=37; (words: "W", "a", "b", "c", "d", "e", "f", "g", "h", "i", "j", "k", "l", "m", "n", "o", "p", "q", "r", "s", "t", "u", "v", "w", "x", "y" and "z")
Count[02]=08; (words: "eg", "gh", "hg", "ih", "iq", "oi", "ui" and "wh")
Count[03]=06; (words: "irh", "iuh", "opi", "pio", "qeg" and "qpo")
Count[04]=12; (words: "*sss", "ighq", "oigr", "qiph", "qorg", "skjf", "uhgi" and "weio")
Count[05]=31; (words: "eiphg", "ekfgh", "eupwg", "fffff", "ggggg", "hshsh", "iohoi", "jfjfj", "oihge", "oiwgh", "qerog", "qerug", "qoigh", "roihg" and "uiqrh")
Count[06]=18; (words: "PWOEHF", "gopiqh", "goqhrg", "gq[hrg", "gwiuhg", "hiophg", "hquwhg", "lierug", "oigerh", "oiphwe", "pioqgh", "qhqiog", "qoeihf", "qruiph"
quperg", "rihgeq", "riogjq" and "rpuqhg")
Count[07]=16; (words: "fffffff", "ioprhgi", "leiqguh", "piqherg", "qeoirgh", "qeopurg", "qepruog", "qeriugh", "qeropgh", "qiiphge", "qlreiug" and "qoriihg")
Count[08]=04; (words: "LSDBFLjh", "aliualif", "iohqpurh" and "rgpoiwhg")
Count[09]=06; (words: "fweoiifha", "hriohqirg", "ohrgaiurh", "qer'ogqer", "quhrioqhg" and "sluahdwih")
Count[10]=01; (words: "oigqhioheq")
Count[11]=02; (words: "qperhgpeiqu" and "wwiughreugi")
Count[12]=04; (words: "EFIOHAELIUFH", "alehfluiasef", "aooirghaoirh" and "qeorihgqeoig")
Count[13]=06; (words: "erguihidhgjkd", "hgwpuphquihgr", "ioqejgowirgwi", "oirgheiorhgei", "qeoighqueirgh" and "rpuhqeriugqer")
Count[14]=04; (words: "piqheeiorhgoip", "qeiurghqihgqer", "qelrghqepirghq" and "qpuerghipequrg")
Count[16]=02; (words: "qeoruphoqierjgoi" and "qiugqerpurhepghr")
Count[17]=03; (words: "iqpqhgriohperoigh", "oqihgrphqergpheqr" and "qpurghqperhgpqeug")
Count[19]=04; (words: "qfghqihduiqdhfgidhg", "qrgpqihgqrpihgrioqr", "queghqepurighqepurg" and "qupugpuqerhgupiqerg")
Count[20]=01; (words: "qrghqepghqepughqepug")
Count[21]=01; (words: "equrgqpihgopqirgoiqph")
Count[22]=01; (words: "qeliguhqeliuoghqerpiue")
Count[24]=01; (words: "ruihgejrgdkhgdkfjghdfjgh")
Count[26]=01; (words: "hehehehehehehhehehehhehe")
Count[33]=01; (words: "qeuirpghq[epwhgqprugqeuipgqruiph\")
Count[38]=01; (words: "qlriughqepiurehiuqergquiehgquierguiqeg")
Count[42]=01; (words: "qeiurghqiuorgqeighqeprghqe[ourgqperhgqupgr")
Count[43]=01; (words: "qrepughiughquifdhfghjfjfjjfjfjjfjfjfjfjfjjf")
```