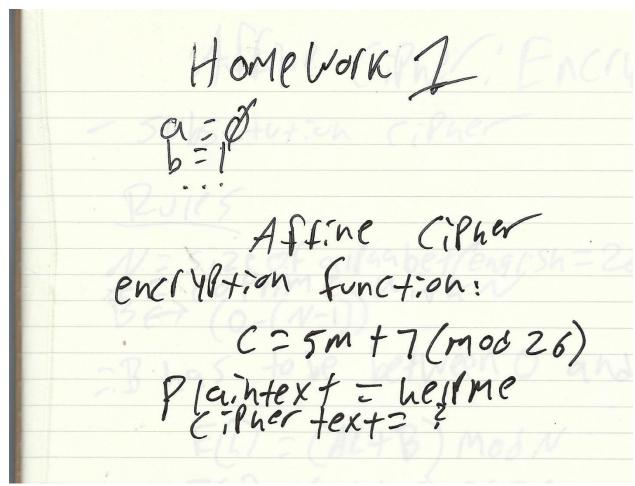
HOMEWORK 1

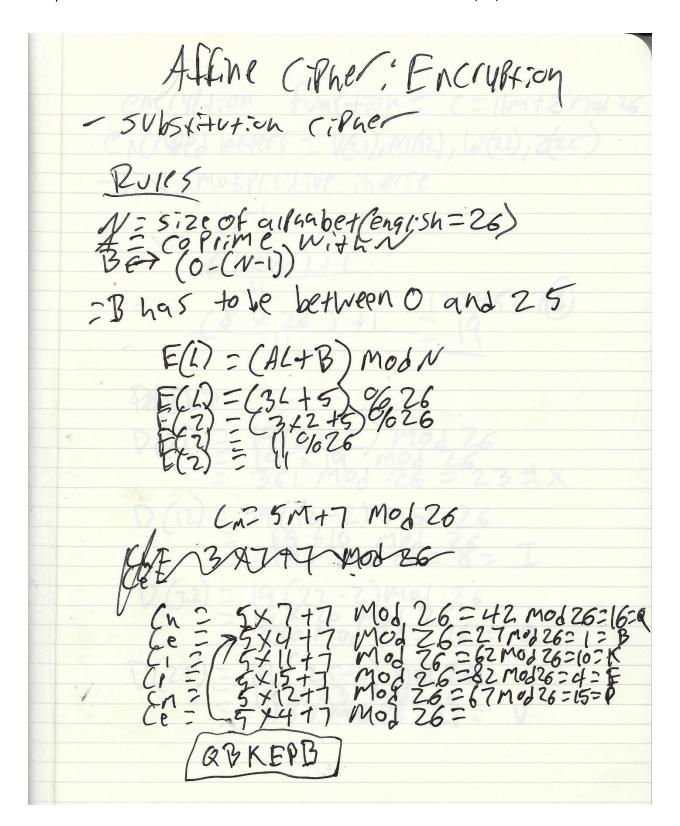
ROBIN WARD

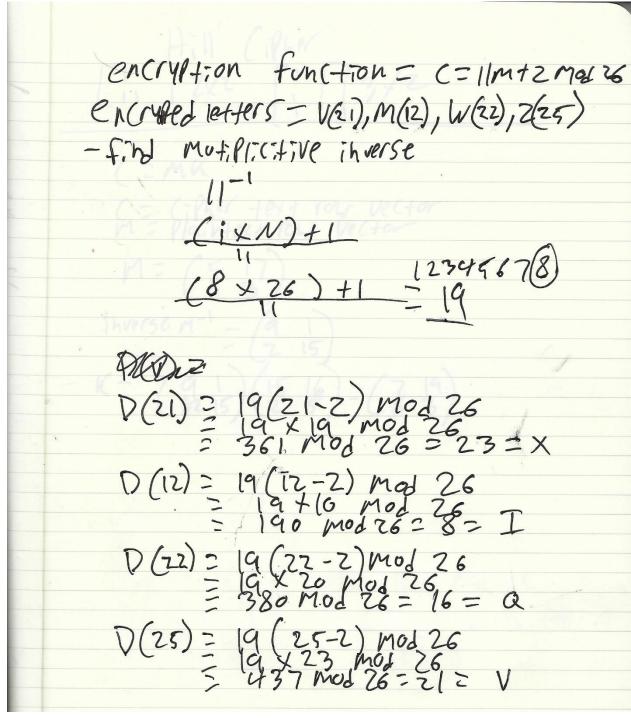
COMP 7376

2/12/2020

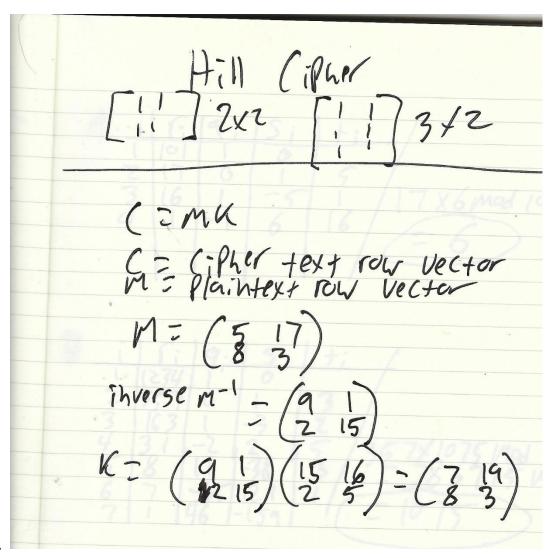


1.





2.



3.

A. i (; q; S; +; 1 0
B
C. I G G; S; It; 2 3/25 0 G 3 6/2 1 -3 G 4 65 -5 16 9 3125x (844 Mo) 9087 5 27 46 -497 2 - 5762500 Mo) 9987=1 7 5 240 -367 2 - 5762500 Mo) 9987=1 7 5 240 -367 2 - 58762500 Mo) 9987=1

4. 5.

python3

```
def brute(cipher):
    length=len(cipher)
    for key in range(1,26):
        plaintext=""
        for i in range(length):
            reorder=(ord(cipher[i])-ord('A')-key)%26
            if(reorder<0):
                reorder=reorder+26
                reorder=reorder+ord('A')
                plaintext=plaintext+chr(reorder)
                print("key#",key,"plaintext=",plaintext)
brute('BEEAKFYDJXUQYHYJIQRYHTYJIQFBQDUYJIIKFUHCQD')</pre>
```

key# 1 plaintext= ADDZJEXCIWTPXGXIHPQXGSXIHPEAPCTXIHHJETGBPC key# 2 plaintext= ZCCYIDWBHVSOWFWHGOPWFRWHGODZOBSWHGGIDSFAOB key# 3 plaintext= YBBXHCVAGURNVEVGFNOVEQVGFNCYNARVGFFHCREZNA key# 4 plaintext= XAAWGBUZFTQMUDUFEMNUDPUFEMBXMZQUFEEGBQDYMZ key# 5 plaintext= WZZVFATYESPLTCTEDLMTCOTEDLAWLYPTEDDFAPCXLY key# 6 plaintext= VYYUEZSXDROKSBSDCKLSBNSDCKZVKXOSDCCEZOBWKX kev# 7 plaintext= UXXTDYRWCQNJRARCBJKRAMRCBJYUJWNRCBBDYNAVJW key# 8 plaintext= TWWSCXQVBPMIQZQBAIJQZLQBAIXTIVMQBAACXMZUIV key# 9 plaintext= SVVRBWPUAOLHPYPAZHIPYKPAZHWSHULPAZZBWLYTHU key# 10 plaintext= RUUQAVOTZNKGOXOZYGHOXJOZYGVRGTKOZYYAVKXSGT key# 11 plaintext= QTTPZUNSYMJFNWNYXFGNWINYXFUQFSJNYXXZUJWRFS key# 12 plaintext= PSSOYTMRXLIEMVMXWEFMVHMXWETPERIMXWWYTIVQER key# 13 plaintext= ORRNXSLQWKHDLULWVDELUGLWVDSODQHLWVVXSHUPDQ key# 14 plaintext= NQQMWRKPVJGCKTKVUCDKTFKVUCRNCPGKVUUWRGTOCP key# 15 plaintext= MPPLVQJOUIFBJSJUTBCJSEJUTBQMBOFJUTTVQFSNBO key# 16 plaintext= LOOKUPINTHEAIRITSABIRDITSAPLANEITSSUPERMAN key# 17 plaintext= KNNJTOHMSGDZHQHSRZAHQCHSRZOKZMDHSRRTODQLZM key# 18 plaintext= JMMISNGLRFCYGPGRQYZGPBGRQYNJYLCGRQQSNCPKYL key# 19 plaintext= ILLHRMFKQEBXFOFQPXYFOAFQPXMIXKBFQPPRMBOJXK key# 20 plaintext= HKKGQLEJPDAWENEPOWXENZEPOWLHWJAEPOOQLANIWJ key# 21 plaintext= GJJFPKDIOCZVDMDONVWDMYDONVKGVIZDONNPKZMHVI key# 22 plaintext= FIIEOJCHNBYUCLCNMUVCLXCNMUJFUHYCNMMOJYLGUH

key# 23 plaintext= EHHDNIBGMAXTBKBMLTUBKWBMLTIETGXBMLLNIXKFTG key# 24 plaintext= DGGCMHAFLZWSAJALKSTAJVALKSHDSFWALKKMHWJESF key# 25 plaintext= CFFBLGZEKYVRZIZKJRSZIUZKJRGCREVZKJJLGVIDRE