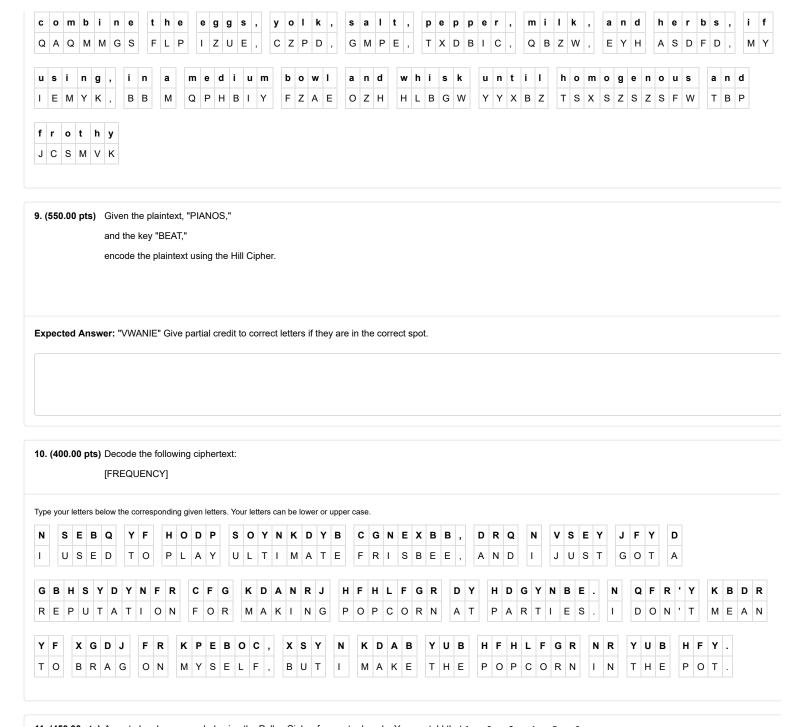
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p = 311 n = 257197q = 827 e = 79449 $\Phi = 256060$ d = 30589

As it comes to pass, Jake is on vacation in Hawaii, and Amy needs a document that is stored in the company safe. They are communicating via email, and they both know it is very unwise to trust the security of computers in a hotel lobby. Amy needs to tell Jake his public key, knowing well that it can be read by untrustworthy parties. List the minimum set of numbers that Amy needs to email to Jake in order for Jake to be able to decode the message.

Additionally, Jake wants to transmit the combination to the safe (which is 930) in the response email but encrypted with RSA. What formula should Jake compute in order to know the ciphertext to transmit?
Expected Answer: Set of numbers (order doesn't matter): 257197, 79449 Formula: (930 ^ 79449) mod 257197
5. (350.00 pts) Decode the following ciphertext: [FREQUENCY]
Type your letters below the corresponding given letters. Your letters can be lower or upper case.
A V R H E E I O T Q R I T D V R R R J C T I A J M S T K R P D X W R V X H X Z D S O H X A I R E A L L Y H O P E Y O U R E E N J O Y I N G C O D E B U S T E R S A S M U C H A S I
K A K . M T T K E D S B T J H E E D V T W O R V R L R J W X ! D I D I U C K O N A L L Y O U R E V E N T S !
6. (400.00 pts) Decode the encrypted message: AABBBABBABAAAABAAAAABAAAABAAAABABAAABBABA
Expected Answer: "How easily happiness begins by dicing onions"
7. (400.00 pts) Decode the following ciphertext: [FREQUENCY]
Type your letters below the corresponding given letters. Your letters can be lower or upper case.
N U D M B Q N E L F M B G B Q Y U D Y D O O U S K D R B M N O L F K B E C G I H A V E D I S C O V E R E D T H A T A L L H U M A N E V I L C O M E S F R
F K Y U N E K D R E X B N R J S R D X O B Y F E N Y E Y N O O N R D G F F K
O M T H I S M A N S B E I N G U N A B L E T O S I T S T I L L I N A R O O M
8. (375.00 pts) Encode the following text with the Vigenere Cipher using the code: "OMELET"

 $\label{thm:corresponding} \mbox{Type your letters below the corresponding given letters. Your letters can be lower or upper case.}$



11. (450.00 pts) A quote has been encoded using the Pollux Cipher for you to decode. You are told that 1=•, 2=-, 3=-, 4=x, 5=•, 6=-

Expected Answer: Bamboo is a very sustainable material as it is one of the world's fastest growing plants.
12. (400.00 pts) The following quote needs to be encoded with the Affine Cipher using a=19 and b=6.
Type your letters below the corresponding given letters. Your letters can be lower or upper case. H a p p y I i t t I e t r e e s . J G F F U H C D D H E D R E E K .
13. (375.00 pts) Decode the following ciphertext: [FREQUENCY]
Type your letters below the corresponding given letters. Your letters can be lower or upper case. Y U B B R L U D R Y N R J L U D G K E F C Y U N E E S X O N K B E L N B R L B G B M B D O T H E N C H A N T I N G C H A R M S O F T H I S S U B L I M E S C I E N C E R E V E A L
F R O P Y F Y U F E B I U F U D M B Y U B L F S G D J B Y F J F Q B B H O P N R Y F O N L Y T O T H O S E W H O H A V E T H E C O U R A G E T O G O D E E P L Y I N T O
N Y . I T .
14. (400.00 pts) Decode the following ciphertext encoded with the Vigenere Cipher and the key: "LEMON"
Type your letters below the corresponding given letters. Your letters can be lower or upper case.
E L Q A B C I M Q V O M O H U P J A C Q , E L Q A B C I E O Y T Z M F H D L Q G V Y . T H E M O R E A C I D I C T H E F O O D , T H E M O R E S A L I V A R U S H E S I N .
E O W Q , E L Q B , V D E Z W A E I S F N W T M F G Z J Y O A J S R C H C Q A G G A C I D , T H E N , I S A N I N T E G R A L P A R T O F M A N Y O F O U R M O S T
A P Q O F F V M P Y P I M H V Y K Q L C P V U S A N I E . P L E A B L E A T I N G E X P E R I E N C E S .



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