



**EQUATION ANALYSIS**  
This type of puzzle was originally written by Will Shortz for GAMES magazine. To solve each puzzle, simply find the words whose initials have been given. For example, if the clue was 26 L. OF THE A., then the answer would be 26 LETTERS OF THE ALPHABET.

366 = D. in a L.Y.

36 = I. in a Y.

13 = R. in a B.D.

4 = F. on a H. (5 with the T.)

2 = B. still alive

4 = S. : W., S., S., F.

6 = S. on a G. (4 on a B.G.)

99 = B. of B. on the W.

9 = H. on the H. (if you're L.!)

666 = S. of the B.

9 = L. that a C. has

1 = H. on a U.

20 = Q. (A., M., and V.)

64 = S. on a C.

*Einstein said this couldn't be done by 70% of the population*

**HACKING 101**

Consider an answering machine with remote inquiry facility, where you can call the answering machine and enter a 4 digit passcode into your telephone keypad, so you can listen to the messages from anywhere you like. Many of these machines will let you in if you enter the correct consecutive sequence of digits, regardless of what preceded that sequence.

Example: Passcode is 1234.

if you feed the machine 1234, you're in

if you feed the machine 01234, you're in

if you feed the machine 0121234, you're in

if you feed the machine 94129838701234, you're in

To brute-force hack the machine, you could try all numbers from 0000 to 9999, sending 40000 sounds across the wire. But since you are a smart hacker, you see that there's room for optimization. What is the shortest series of digits you have to send to the answering machine in order to break the code in any case? *Puzzle by William Wu Einstein said this couldn't be done by 98% of the population*

Einstein said this couldn't be done by...

50% of the population.

70% of the population.

80% of the population.

98% of the population.

100% of the population.

Easy

Not easy

More challenging

This is a hard problem.

(Go ask him for help.)

Think you know the answer?

For more info on these puzzles, go to <http://www.reed.edu/~mcphailb/quest/>

We're sorry Mario but our princess is in another castle.

Questions? Blitz: [puzzles@reed.edu](mailto:puzzles@reed.edu)