

## Seminar Puzzle Solution

By Jorge Zhang

Room #	Seminars	#Corrupted#
200	Cryptography Delight	Pray Rightly
012	Mathematigals	Mama That Leg
111	Zero To Medal	Tell Zade
120	Cork Furniture	Tick Fur
211	Amazing Hero	Nag Him
012	Service Now	I Crow
#Corrupted#	#Corrupted#	#Corrupted#
110	#Corrupted#	#Corrupted#
012	#Corrupted#	#Corrupted#
202	#Corrupted#	#Corrupted#
202	#Corrupted#	#Corrupted#
012	#Corrupted#	#Corrupted#
200	#Corrupted#	#Corrupted#

### Step One: Use Ternary (base 3) to Decode the room numbers

The puzzle underlines basic, so you should be thinking about number bases. Notice that the room numbers only have numbers between 0-2. This indicates that you should convert the room numbers from base 3 to base 10. For example,  $200 = 18$ . The 18th letter of the alphabet is R. This process reveals the phrase, "Remove Letters."

### Step Two: Remove the corrupted letters from the seminars

For example, Cryptography Delight without any of the letters in "Pray Rightly" is "Code." Repeat this process for every seminar. This will reveal the phrase, "code is room one zero seven."

### Step Three: Find Room 107

Using the accompanying example seminar listing, find Room 107. If you are or were a Payton student, you'll already know that Room 107 is the Library. The answer is LIBRARY.