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OFFICIAL SOLUTIONS

I.A.P. Mystery Hunt '87
Mystery Hunt Clues

A You can catch the Lincoln Shuttle at E23 or next to __12__.

B A type of whale. _Right_

C Building with elevator murals by Mira Jedwabnik. __36__

D $\overset{1}{P} + 2\overset{4}{B} + \overset{7}{LF} + \overset{6}{SS} = $ __18__. _(baseball)_

E As of ten days ago, __517__ have yet to complete Phase II. _(1/14 Tech)_

F Length, in minutes, of the Michelob Light Eagle's best flight yet. _18_

G $\overset{4}{\underset{\underset{471}{471}}{Coolidge}} - \overset{1}{\underset{471}{Fisk}} = $ __3__. _(New House)_

H Izquierda. _Left (Spanish)_

I Speed limit on I-87, in furlongs per fortnight. $\left(\frac{55\,mi.}{hr.}\right)\left(\frac{8\,furlong}{mi.}\right)\left(\frac{24\,hr.}{day}\right)\left(\frac{14\,day}{fortnight}\right) = $ __147,840__

J Number of deciduous trees growing on the roof of Building 20. _0_

K "You are __16__ ..." (Hammerstein, 1959). _(from "The Sound of Music")_

L Diameter, in feet, of the large golf ball on 54. _25_ _(1/14 Tech, p. 11)_

M PEG '__54__. _(Paul E. Gray)_

N Building at 6 Vassar Street. __58__ _(This is trickier than it seems, because the building is not actually on Vassar St.)_

O Metropolitan District Commission plus Long Island. $MDC + LI = $ __1651__

P Year in which the Scouting requirement for membership in $A\Phi\Omega$ was dropped. _1966_

Q $\overset{35520}{Given} - \overset{10105}{Bush} + \overset{3310}{Cheney} - \overset{26414}{Kolker} + \overset{1236}{Spofford} = $ __3547__. _(Memorial rooms)_

R MIT freshman triple jump record, in inches. _(indoor)_ $45'2" = $ __542__ "

S Last four digits of the phone number of Alamo Riggers and Millwrights Incorporated. _(in San Antonio, TX: (512) 494-__7844__)_

T Direction from _(sculpture near Tang)_ For Marjorie to the Wood _Sailing_ Pavilion. _East_

U Capacity of the _(6th floor of Bldg. 26)_ Compton Penthouse, according to Cambridge. _7_ _(see certificate on 1st floor, next to elevator)_

V Number of $\frac{6}{4}$ measures in the trumpet part of a Wuorinen piece about nature, _minus 1_ _17_ _CORRECTION_ *

W Here can be seen Adams, Aristotle, Averroes, Foucault, Franklin, Helmholtz, Herschel, and Palembert. _Names on Building 2 pyramid._

$$X = S+N\times G+W\times \det\begin{pmatrix} A & M & D \\ L & F & C \\ N & V & K \end{pmatrix}+(O-P)\times R+\frac{I}{G}-(Q+W)+(M-A+J-K)\times(E\times U+A^W)$$

$$\boxed{X = 133,101}$$

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* We checked and double-checked it, and still counted wrong...

$a=1, b=7, c=5, d=3, e=2, f=14, g=3, h=3, i=24$

(13-3!o1)

Go to **X**. [a = (number of missing clocks)$^{=1}$ + (number of potted plants).$^{=0}$] Exit via the unventilated door. [b = number of different selections.$^{(on\ Coke\ machine)}$] Head toward the colored wall and turn **H**. After a while, cross to the far side. [c = number of bears.] Head down the more crowded corridor. Take the elevator to the floor with the chalkboard. [d = last digit of elevator number.] Pass between 2 radiators. Turn at the third exit sign, and again at the fourth, and again at the fifth. [e = number of bulletin boards you have passed since the elevator.] Descend U − G floors. [f = the position in the alphabet of the large letter you see.] Find a wall of the same color. Continue to a map. [g = second digit of number of the first elevator you pass.] [h = number of "DANGER" signs you have passed since the elevator.] Face the map and then turn **B**. Proceed to the first fork, then head **T** until you reach a stairwell. Leave the building by the nearest exit. [i = the building number of the building directly ahead when you exit.]

$$Y = (g-i+N-e)\times(b\times F+f\times V+d\times h\times(f+c+D))+(c-a)\times(f-b\times L+R-h\times G+i\times W)\times(d+A+e$$

$Y = 52{,}955$ 　　　$Z = 52{,}955$ in base 16 = CEDB (in standard hexadecimal notation)

$$Z = Y \text{ in base } (e - c \times d + i - a \times g \times h + f)$$

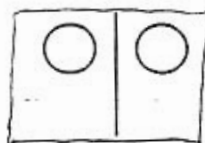Enter **Z** via a revolving door, and go to the logical place (but there's no need to go in).

"CEDB" = Camille Edouard 　　　　　 ↰18-511
　　Dreyfuss Building (= Bldg. 18) 　　(course 18.511 = Intro. to
　　　　　　　　　　　　　　　　　　　　　　　Mathematical Logic)
　　　　　　　　　　　　　　　　　　(see supplementary clues also)

← doors to 56

(Prof. Fox) (Prof. King)
Choose an animal over royalty. Pass two fire extinguishers. The nearest exit sign in an adjacent building is directly above (0,0). There is an electrical outlet at $(K-e-f, g-U)$.
　　　　　　　　　　　　　　　　　　　　　　　　　(0,−4)

$$x = a + i - h \times d = 16$$

$$y = M + \frac{(c-f)}{e} = 49.5$$

(x, y). = coordinates of the coin, in the coordinate system defined above.

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Supplementary Clues

Noon, Sunday

As of Sunday morning, the coin had not yet been found.

These statements were told to those who called us yesterday.

1. Correction: **V** should be one less than what's asked for.

2. Apparently, some mystery hunters tampered with some things in an attempt to mislead or cause difficulties for groups that followed. We found two cases of this and corrected them as best we could. (Note that not many clues are vulnerable to tampering.)

3. Interpreting the phrase "the logical place" is one of the trickiest parts of the hunt.
   (That's probably an understatement!)

Some hopefully helpful hints:

- Deciduous trees loose their leaves in the fall. *Just a red herring...*

- The Compton Penthouse is not in Building 10. *Some people thought it was 10-250. Wrong — that's "Huntington Hall."*

- When you enter via a revolving door, you will be directed to the "logical" place. *Look at the directory just inside.*

- The basement of the George Eastman Research Laboratory may be interesting, in a way, to EECS majors. *Room numbers there = EECS course numbers (Analogously, 18-511 = 18.511 logic course)*

- Remember the Alamo! *Some people apparently think it's in Boston...*

- The "logical" place also sounds like it has "no bell." *18-511 is the office of Nobel laureate Har Gobind Khorana. Nobel sounds like "no bell"... (Get it?)*

- X is a six digit number.

(NOTE: None of the above hints are absolutely essential in finding the coin).

• The coin was found at approximately 2:15 PM, Sunday. It was in a freezer in Building 66.