

# Purple People Eater

$$1 = C$$

Sheb Wooley

Diagram illustrating the 10-adic expansion of  $\frac{1}{3}$ . The expansion is shown as a sequence of digits (1, 3, 5, 7) in blue boxes, arranged in a staircase pattern across four segments defined by vertical lines. The digits are grouped as follows:

- Segment 1: Top digit 3, bottom digit 1.
- Segment 2: Top digit 1, bottom digit  $1^4$ .
- Segment 3: Top digit 5, bottom digit  $5^7$ .
- Segment 4: Top digit 1, bottom digit  $1^4$ .

Diagram illustrating the construction of a 1000-bit code word for a 100-bit message. The message is divided into four segments: 1,  $1^7$ , 4, and  $5^7$  N.C. Each segment is padded with zeros to a total length of 1000 bits. The padding is shown as blue boxes containing the number of zeros added. For example, the first segment '1' is padded with 999 zeros, and the second segment ' $1^7$ ' is padded with 993 zeros.

[illegible]

The diagram illustrates a sequence of 16 steps in a staircase pattern, divided into two sections by a vertical line. The steps are labeled with numbers 1 through 5, and some are marked with #. The labels below the steps are  $1^4$ ,  $4^9$ ,  $1^4$ ,  $2^{-7}$ ,  $5^7$ ,  $1^4$ , and  $5^7$ .

**Section 1 (Left of the vertical line):**

- Step 1: 1
- Step 2: 1
- Step 3: 1
- Step 4: 1
- Step 5: 1
- Step 6: 1
- Step 7: 1
- Step 8: 1
- Step 9: 1
- Step 10: 1
- Step 11: 1
- Step 12: 1
- Step 13: 1
- Step 14: 1
- Step 15: 1
- Step 16: 1

**Section 2 (Right of the vertical line):**

- Step 17: 1
- Step 18: 1
- Step 19: 1
- Step 20: 1
- Step 21: 1
- Step 22: 1
- Step 23: 1
- Step 24: 1
- Step 25: 1
- Step 26: 1
- Step 27: 1
- Step 28: 1
- Step 29: 1
- Step 30: 1
- Step 31: 1
- Step 32: 1
- Step 33: 1
- Step 34: 1
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