



**Problem-Solving Initiative**

## Binary Cypher

(Difficulty – **medium** - **difficult**)

During the recent coding competition, a binary code contest took place.

The contest consisted of a binary code transmission where the spaces between the letters were missing and there was no punctuation.

Each letter of the alphabet was translated into its binary equivalent based on its position in the alphabet:

a=1, b=10, c=11, d=100, e=101, f=110, g=111, h=1000, i=1001, j=1010, k=1011, l=1100, m=1101, n=1110, o=1111, p=10000, q=10001, r=10010, s=10011, t=10100, u=10101, v=10110, w=10111, x=11000, y=11001, z=11010.

What is the answer to the question being asked?

```
110011101001000100110011100110011110110
101100101100110010011101101001111010111
001010010000101011101011010110010110011
010010001111101011111000101001001101001
011111111010111001001000101110010000100
111010011100111011101100110011100111011
000011001011000110101101100111010010011
11111101011110001101001001100111111110
101100001100101011001111111110101
```



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Answer:

"As this is a very difficult puzzle, I thought it would help if I asked a simple question: What is one plus one?"