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## Python For Fine Programmers

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### Problem 1 (1 Point)

Write down the binary representation of 76 (Decimal)

### Problem 2 (1 Point)

Find the value of  $2^{16}$  in 4 multiplications

### Problem 3 (1 Point)

If  $\log_{10}^a = b$ , How many digits are there in the decimal representation of  $a$ ?

### Problem 4 (1 Point)

If  $x = 100101011011$  is a binary number, write down the representation of  $2 \cdot x$

### Problem 5 (1 Point)

How do you convert from Binary to Octal representation?

### Problem 6 (1 Point)

Square 53 in your head.

### Problem 7 (1 Point)

Can you teach someone how to sort a deck of cards? Just think about that.

### Problem 8 (1 Point)

Have you heard about Tower of Hanoi? If yes, do you know how to solve TOH of any size?

### Problem 9 (1 Point)

You are the postman/woman of your locality. How would you deliver the posts with least effort / maximum efficiency?

### Problem 10 (1 Point)

Have you heard about Fibonacci series? Do you know the connection of rabbits and computer science?

### Problem 11 (1 Point)

What is the difference between a NIBBLE and a WORD