

PR 2 Pengantar Sains Komputasi

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SOAL 1

Give the magnitude and precision of 93.6×10^7

SOAL 2

We do the calculation of

$$x = 0.536$$

$$y = 7x$$

$$z = y/7$$

on the system that truncates to 3 digits of significand. Write an IF statement that puts 1 in the value of a variable p if the floating point of x and z are equal and otherwise puts 0.

SOAL 3

Consider a machine that rounds to 4 significant digits. Suppose initially $y = 9.649$ and $x = 7.834$. The following assignment statement, which calculates the expression on the right, $(y + x)$ and then replaces the value of y on the left with the result, is in the loop that executes four times: $y = y + x$. After each iteration of the loop, give the value stored in y and the absolute and relative error.

JAWABAN SOAL 1

JAWABAN SOAL 2

JAWABAN SOAL 3