

Answer on Question#38066 - Math - Other

If the entire program is written in FORTRAN, the percentage increase in the execution time, compared to writing the entire program in FORTRAN and rewriting the 1% in assembly language is

- a) 0.9
- b) 0.8
- c) 8
- d) 9

Answer = B

Explanation: Let the first case takes 100 units of time to execute. Second case will take $99 + (1/5)$ units of time. As the 1% coding in assembly language will take $1/5$ units of time. Hence the required percentage = $0.8 * 100 / 100 = 0.8$.