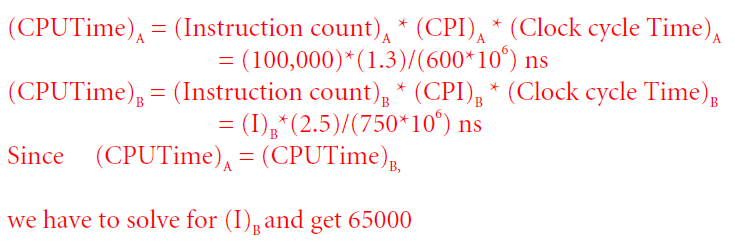
**HW#1 (CSC390-Spring 2016)**

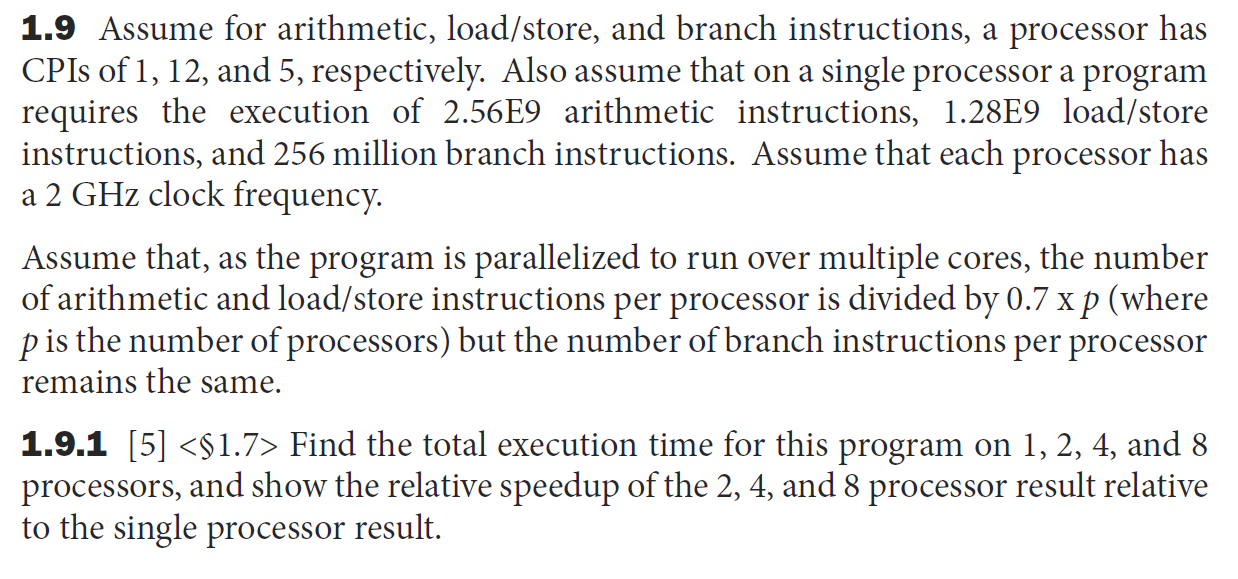
**SOLUTION**

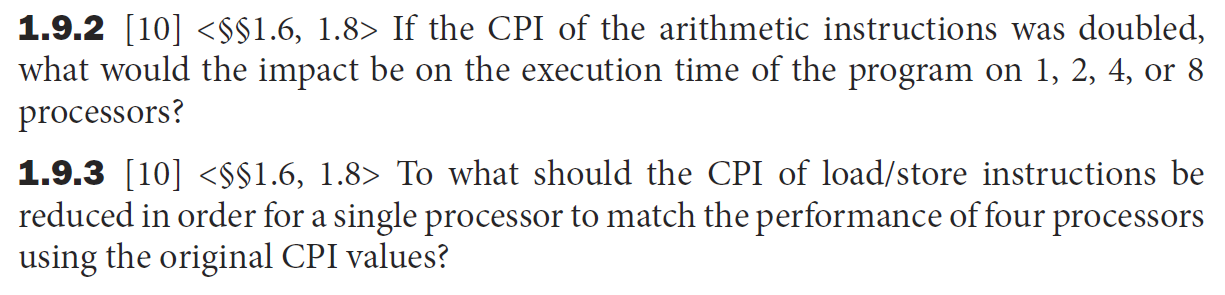
**Q1.** Computer A has an overall CPI of 1.3 and can be run at a clock rate of 600MHz. Computer B has a CPI of 2.5 and can be run at a clock rate of 750 Mhz. We have a particular program we wish to run. When compiled for computer A, this program has exactly 100,000 instructions. How many instructions would the program need to have when compiled for Computer B, in order for the two computers to have exactly the same execution time for this program?

Sol:

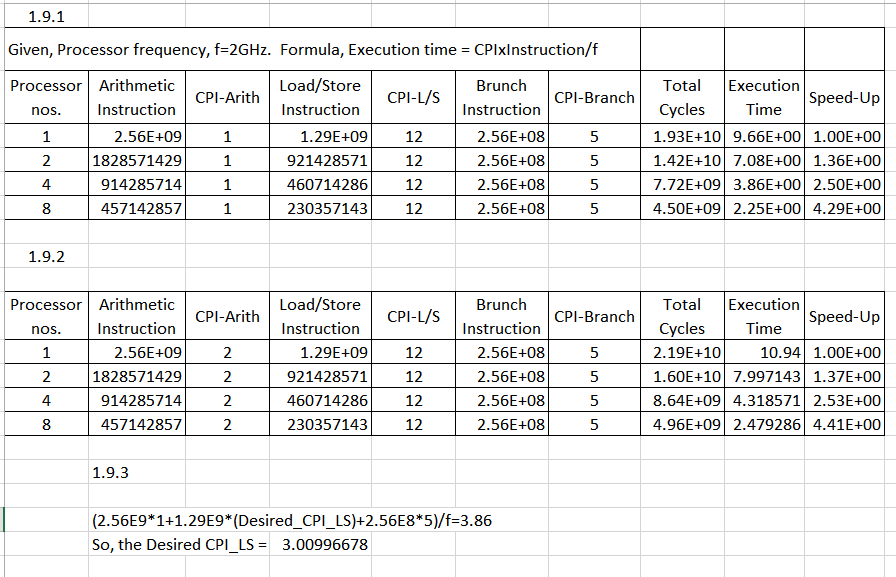


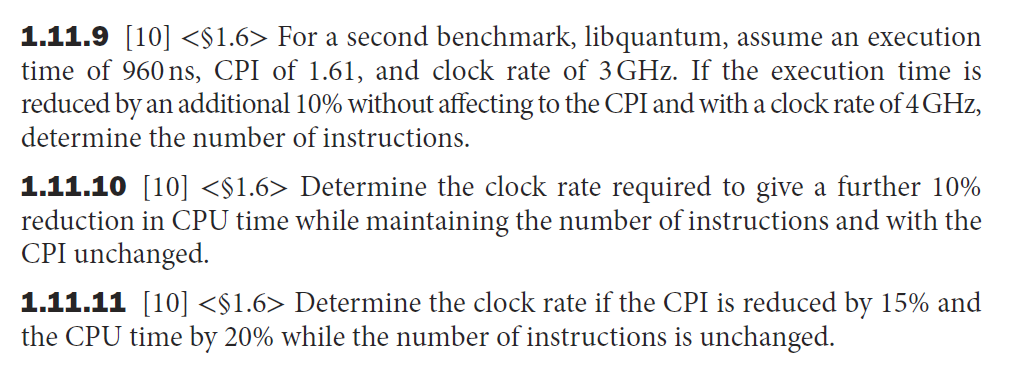
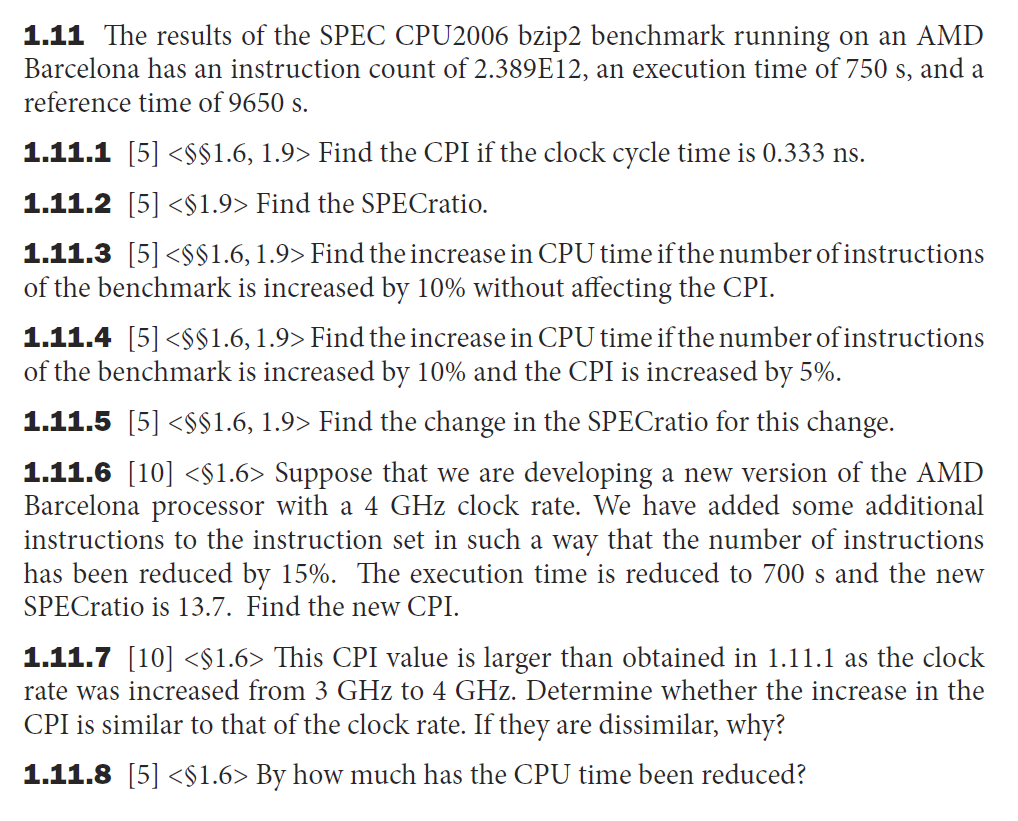
Answer the following questions (these questions are taken from your text books):



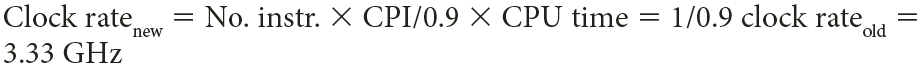
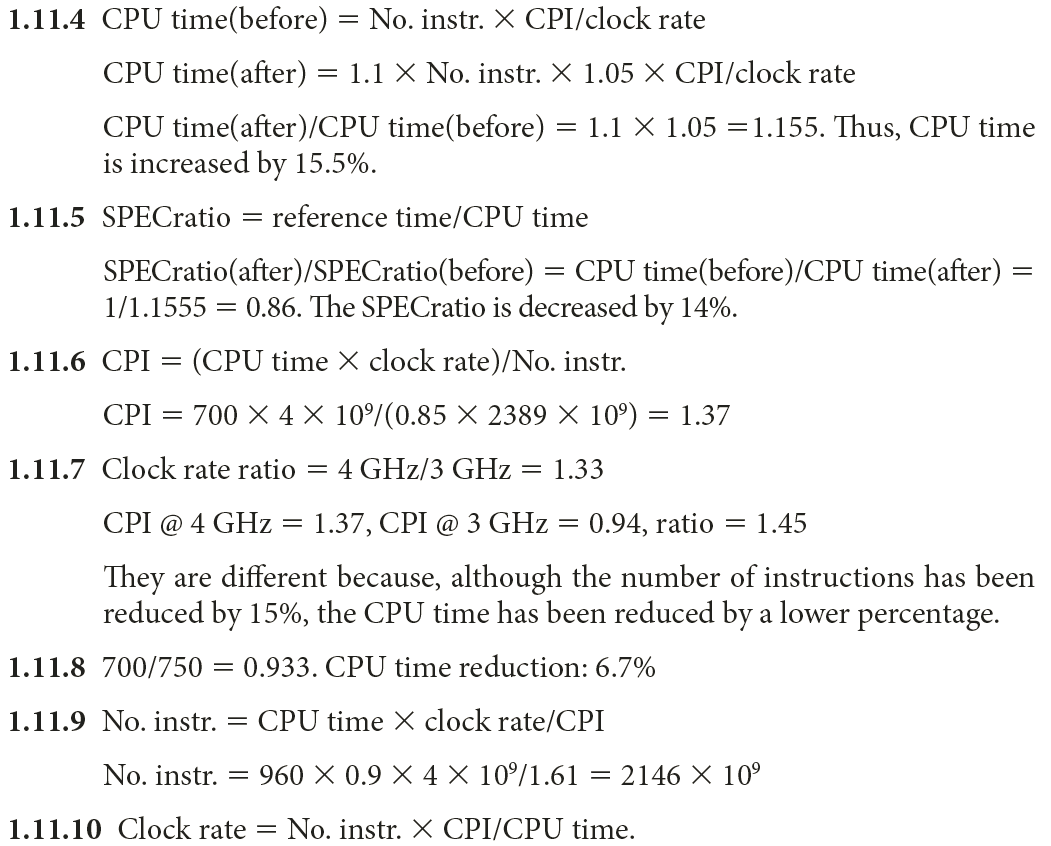
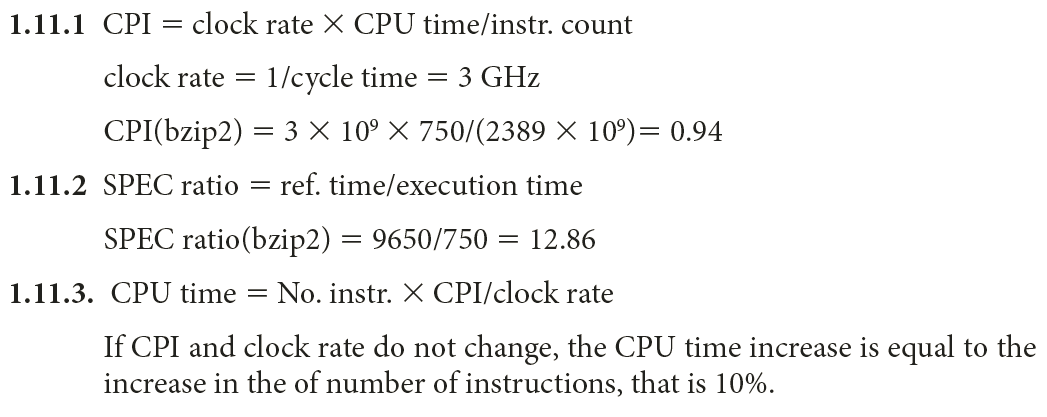


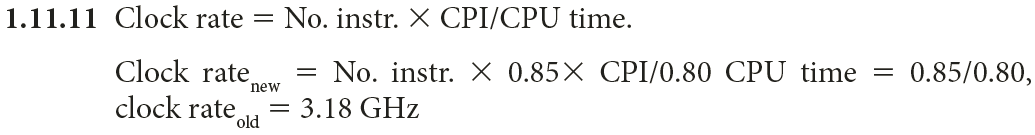
Sol:

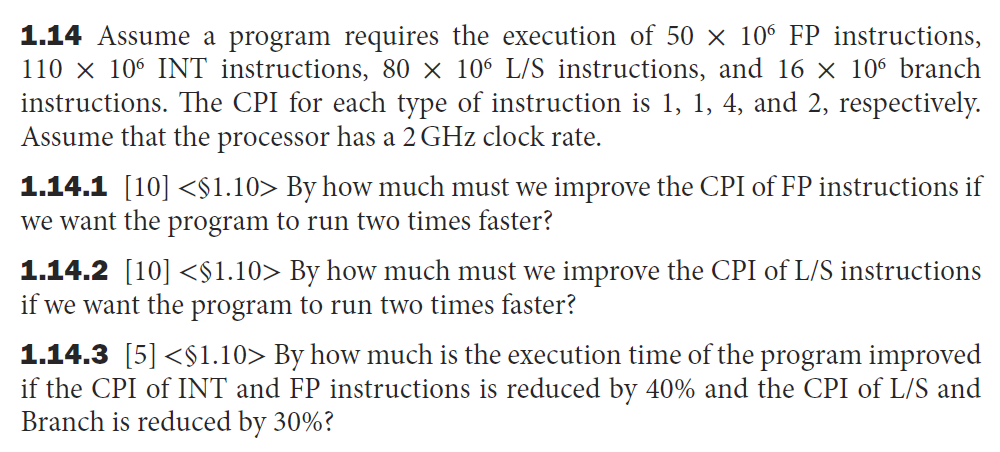




Sol:







Sol:

