

HW8 Answer Keys/Tips

Q1-2

If an instruction is flushed, write an "X" in the cycle when it is flushed.

In b, the number of cycles for each iteration should be the sum of the number of instructions plus the total number of stall cycles. Every cycle is accounted for.

Round the speedup numbers to the nearest hundredths.

Q3

The sum of all numbers is 1.9745.

Q4

The total of the numbers in column B is 11.4.

Q5

Construct a table to find out if each prediction is correct.

We can figure out the initial prediction when the pattern repeats.

Round both CPI to the nearest hundredths. The total of the numbers in column B is 6.85.