

# Computer Architecture Lab - Assignment 5

Rajan Gupta - 210020041

Aryan Gupta - 210010005

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Name of the file	No. of Instructions	No. of Cycles	CPI	IPC
descending.asm	329	13196	40.10942	0.024931798
evenorodd.asm	6	246	41.0	0.024390243
fibonacci.asm	86	3464	40.279068	0.02482679
prime.asm	30	1218	40.6	0.024630541
palindrome.asm	56	2274	40.607143	0.024626208

- The CPI of all benchmark programs is approximately 40.
- Programs that demand more iterations and cycles are typically those with significant data and control hazards.
- Nevertheless, the CPI for each of these programs suggests that the main memory latency is roughly 40.