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written brief:

A) Single vs. Multiple instances:

- Single: A sequential execution of your task, Just one process/thread is running the task

- Multiple instances: Parallel execution where multiple Processes/threads are running concurrently to devide the work load.

Processes vs. threads

isolation	Processes	Threads
	Fully isolated, independent memory	No Isolation Share memory
	No Direct sharing	share memory
	Slow	Fast
	secure	Less secure
	one crash is oK	A crash affect process
	Best for independent tasks	Best for tasks requiring shared memory

Implementation Time

V1	Sequential	14.483s
V2	Parent & Child processes	32.473s
V3	Threads	32.389s
V4	Mixed	1:34:00 (94.40s)