**High Performance Computing Lab**

**Practical No. 8**

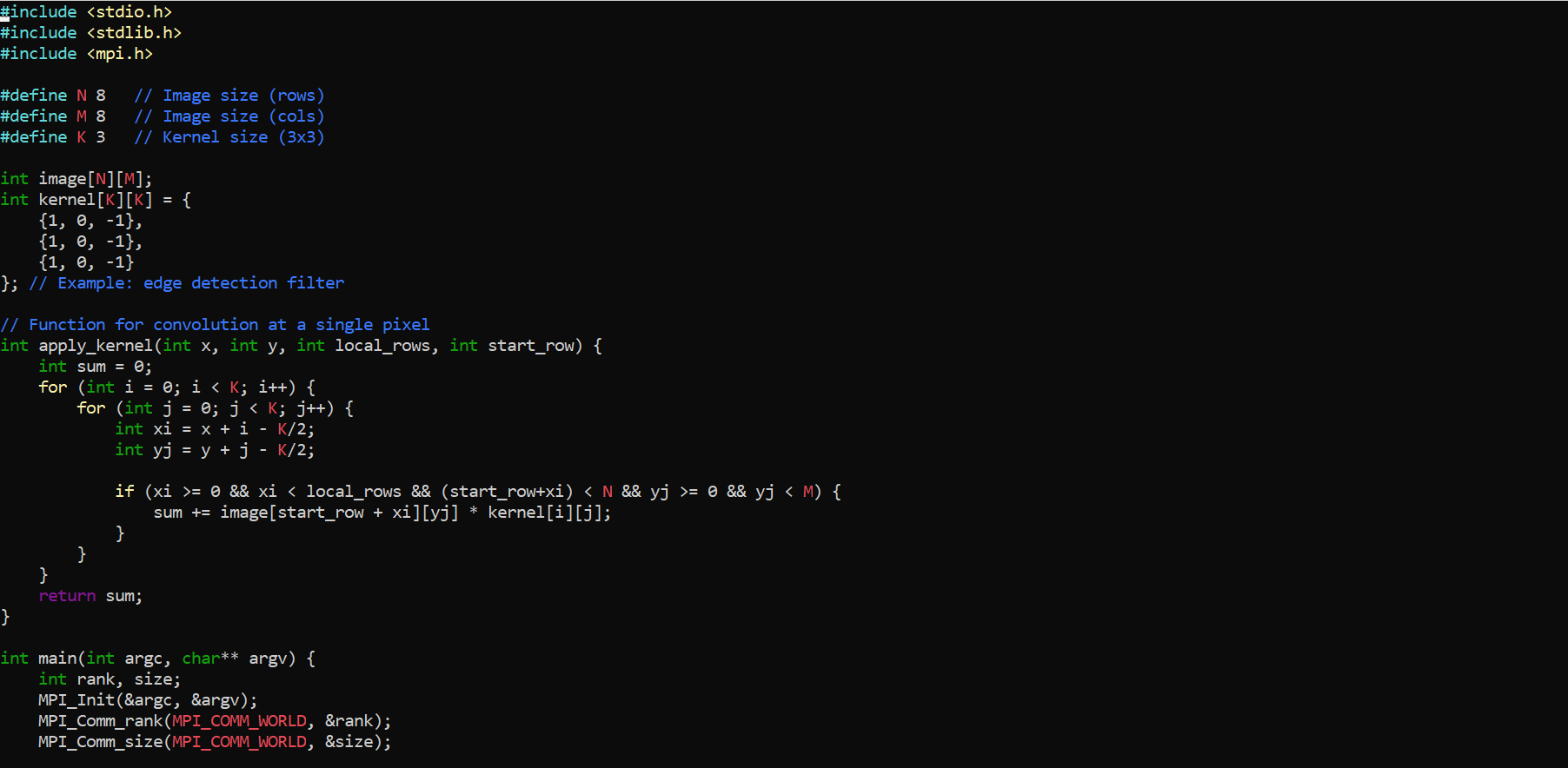
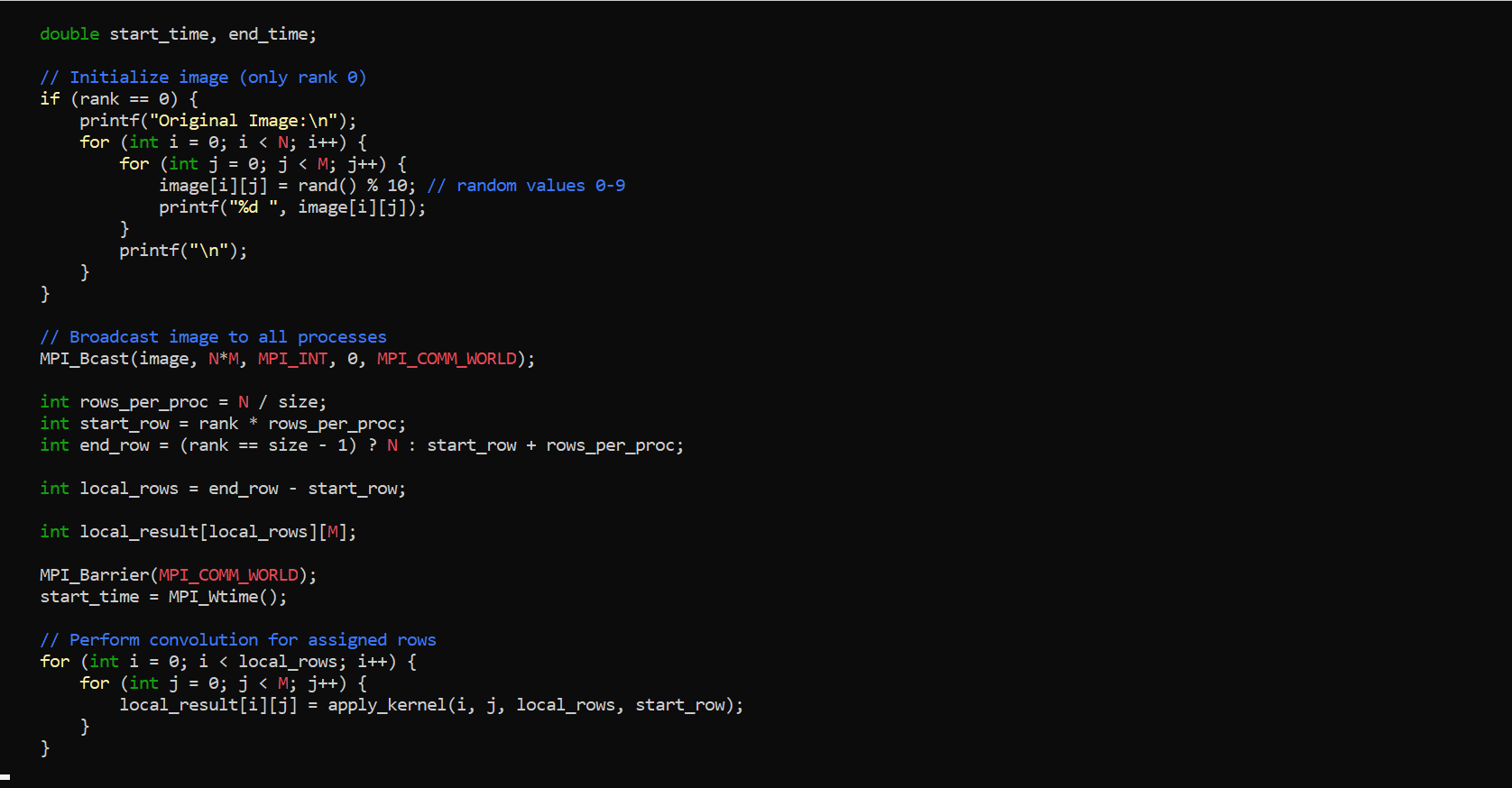
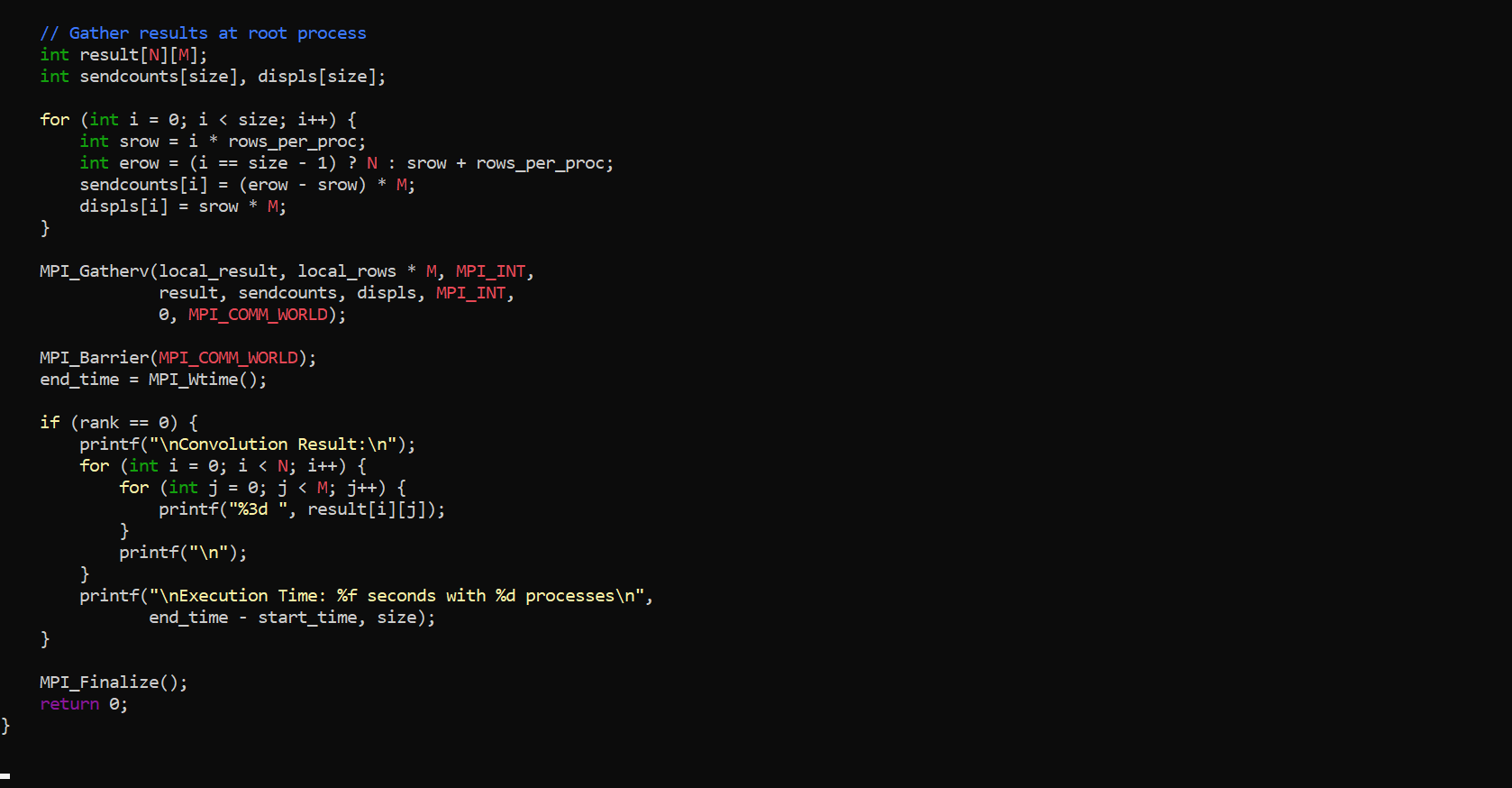
Name: Ganesh Chavhan

PRN No: 22510023

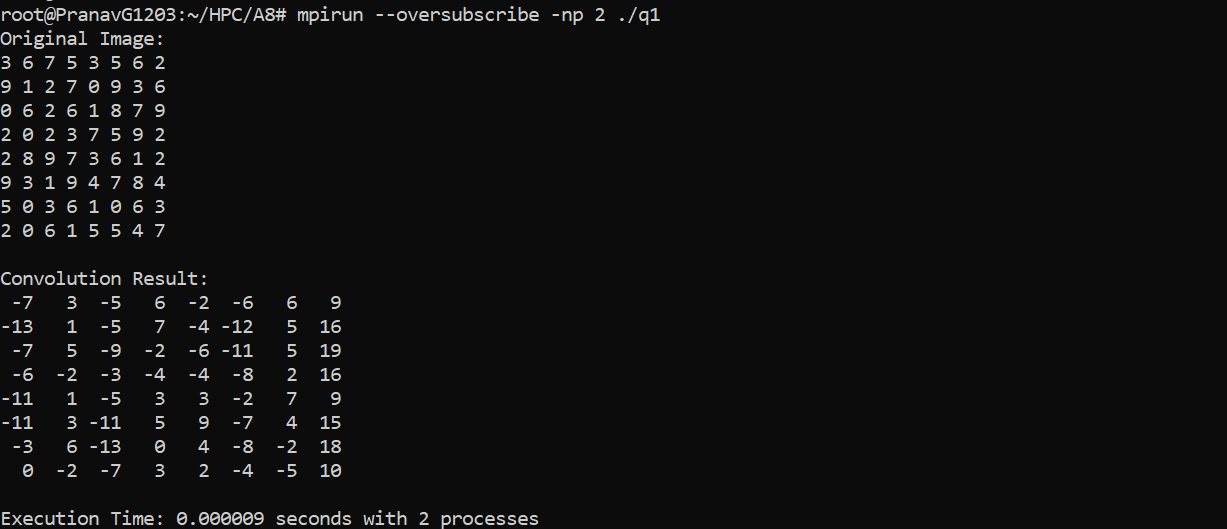
Batch: B

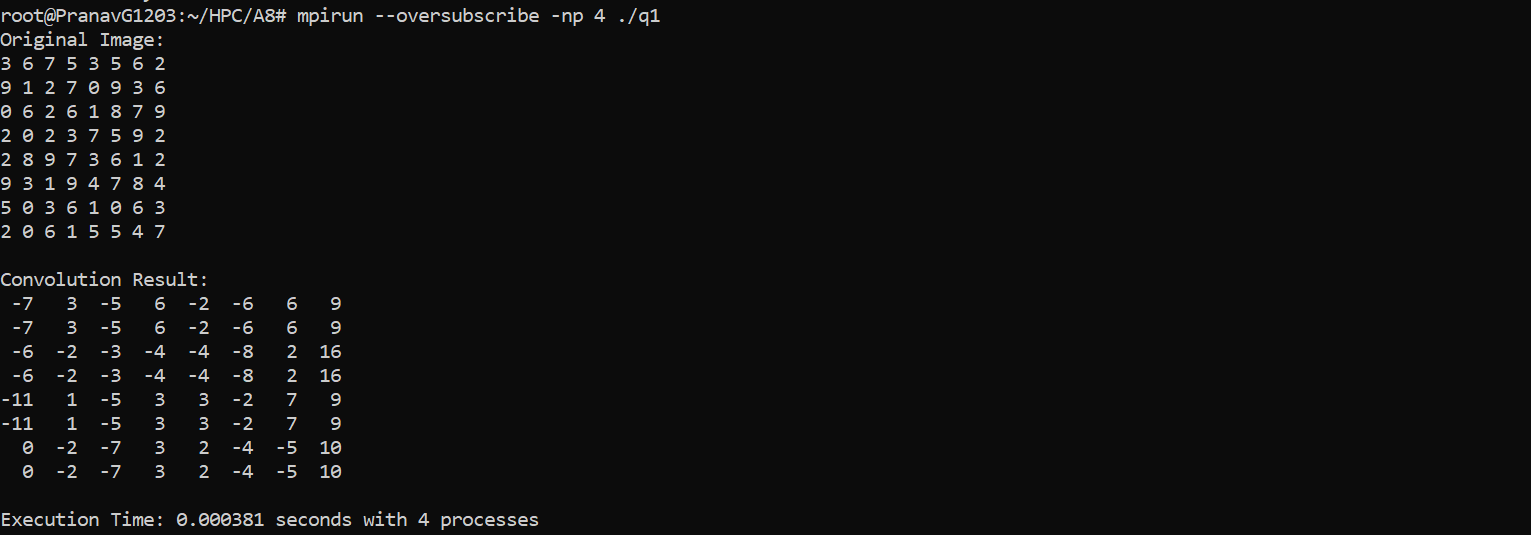
**Problem Statement 1:** Study and implement 2D Convolution using MPI. Use a different number of processes and analyze the performance.

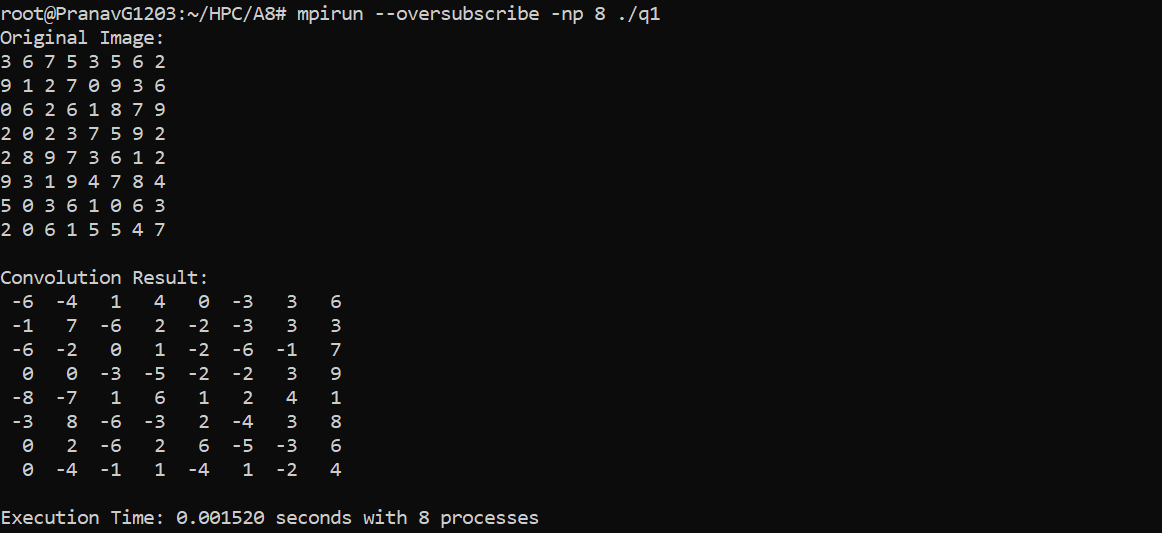
Code:

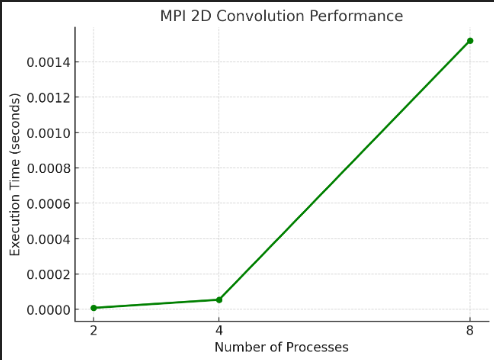
Output:





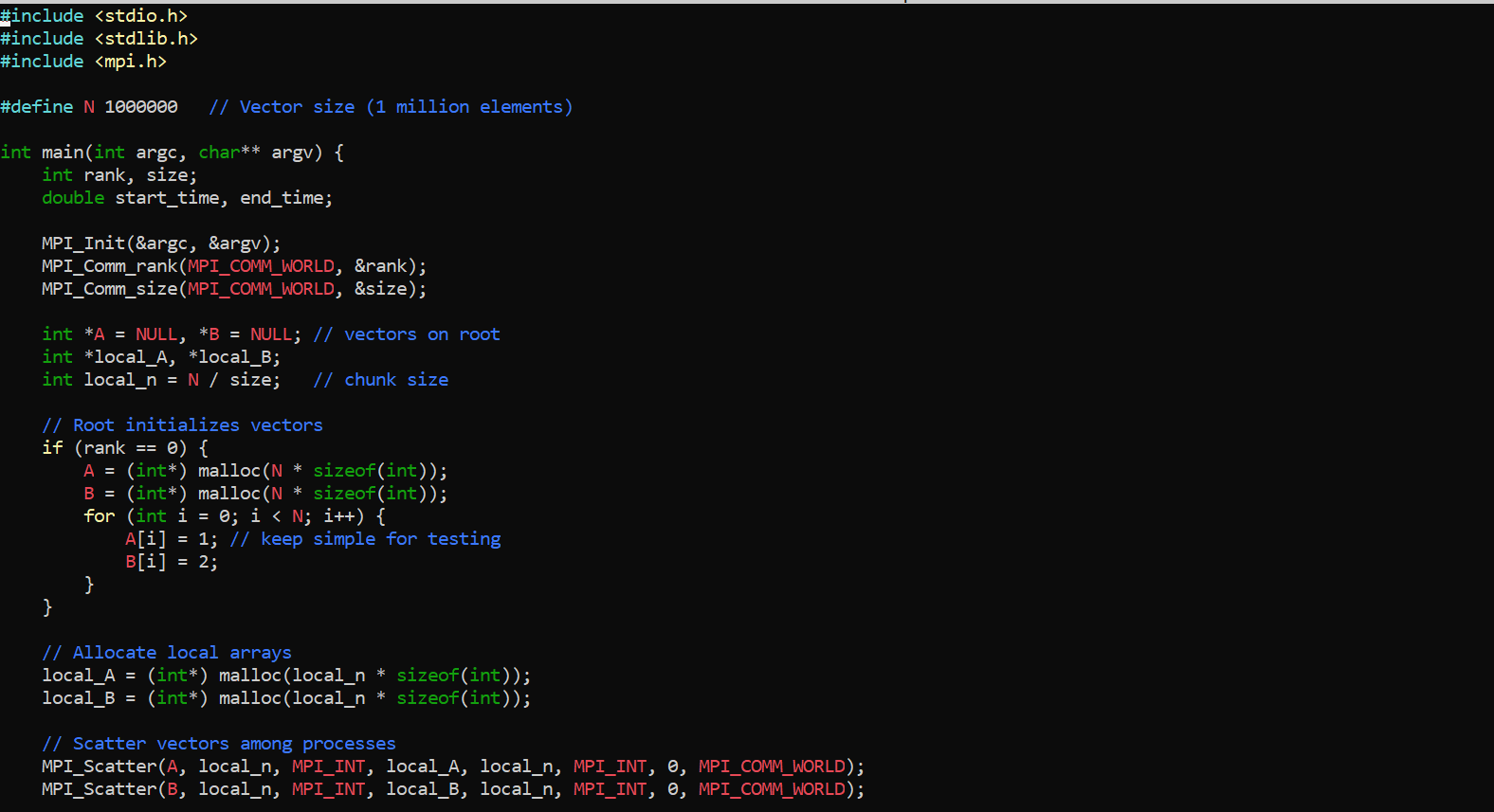


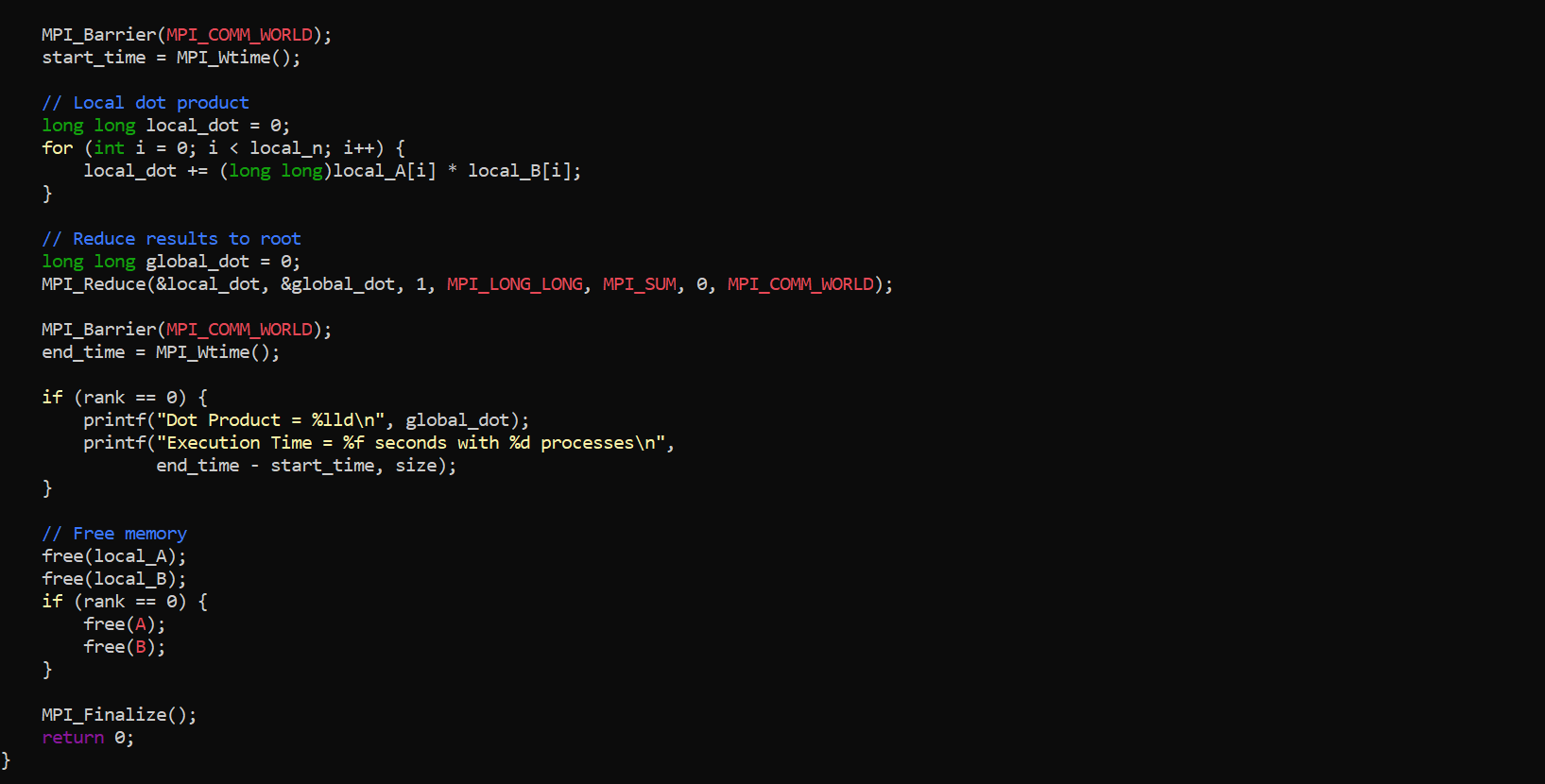
Performance:



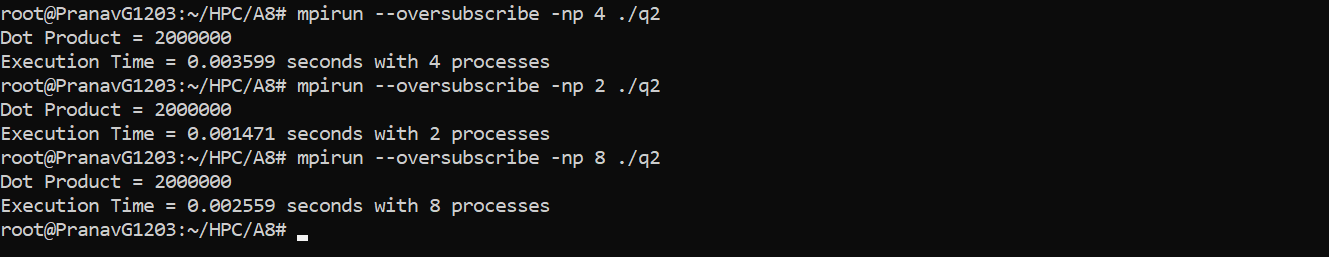
**Problem Statement 2:** Implement dot product using MPI. Use different number of processes and analyze the performance.

Code:





Output:



Performance:

