Lab7 2310110604

Q1

```
● vscode →.../code/sem4git/csd204/lab7 (main) $ ./a.out
  Enter total available instances of resources X, Y, Z: 7 5 7
  Enter Allocation matrix (5 processes × 3 resources):
  P1: 1 0 2
  P2: 3 1 0
  P3: 0 1 1
  P4: 1 0 1
  P5: 1 0 2
  Enter Max matrix (5 processes × 3 resources):
  P1: 6 5 3
  P2: 4 2 1
  P3: 5 1 2
  P4: 1 0 2
  P5: 5 2 3

  The safe sequence is: P2 -> P4 -> P5 -> P3 -> P1
```

Q2

```
● vscode →.../code/sem4git/csd204/lab7 (main) $ ./a.out
  Enter Process Size (in bytes): 4096
  Enter Logical Address Bits: 16
  Enter Main Memory Size (in bytes): 65536
  Enter Page Size (in bytes): 1024

  --- Address Translation Details ---
  Logical Address Bits = 16
  Page Number Bits = 6
  Page Offset Bits = 10
  Physical Address Bits = 16
  Frame Number Bits = 6
  Frame Offset Bits = 10
  Total number of pages in Logical Address Space = 64
  Total number of frames in Main Memory = 64
```