```
//*****************************************
//* HW#3  Problem 2b                      **
//*****************************************

int sum;
semaphore mutex1, mutex2;

/////////////////////////////////
void One()
{
     int i;
     wait(mutex1);
     for ( i = 1; i <= 3; i = i + 1)
          sum = sum + 1;
     signal(mutex1);
}


/////////////////////////////////
void Two()
{
     int i;
     wait(mutex2);
     for ( i = 1; i <= 3; i = i + 1)
          sum = sum + 2;
     signal(mutex2);
}


/////////////////////////////////
main()
{
  sum = 0;
  initialsem(mutex1,1);
  initialsem(mutex2,1);
  cobegin {
    One(); // This will start the 2 processes concurrently
    Two();
  }
  cout << "The sum is " << sum << endl;
}
```