Q1. Parallelize the following serial program **without** using the reduction directive. Prove in 'C' logical code how you would deploy that?

Fortran version:

```
k=0
do i = 1, 100000
        k = k + i
end do
print*, k
end
```

C version:

```
main()
{
        int i, k = 0;
        for (i = 1; i <= 100000; i++) {
                k = k + i  ;}
        printf("%d\n", k);
}
```

Q2. What is wrong in the following pseudo code ?

```
C :
void ccode (int n)
  {
    #pragma omp parallel
      {
         #pragma omp critical
         {
                        work1( ) ;
            #pragma omp barrier
             work2( );
         }
      }
   }
```

Answer: