->Algorithm for Dining Philosopher Problem :

philosopher int P[5] ;

While ( TRUE )

{

……!?!?!........; /\*Thinking\*/

P ( fork [j] ) ; /\*Pick up left fork\*/

P ( fork [i+1] mod 5 ) ; /\*Pick up right fork \*/

eat ( ) ;

V ( fork [i] ) ;

}

}

Philosopher 4 ( ) {

While ( TRUE ) {

……/\*Thinking\*/

P ( fork [0] ) ; /\*Pick up right fork\*/

P ( fork [4] ) ; /\*Pick up left fork\*/

eat( ) ;

V ( fork [4] ) ;

V ( fork [0] ) ;

}

}

Semaphore fork [5] = {1, 1, 1, 1, 1};

fork (philosopher), 1, 0) ;

fork (philosopher), 1, 1) ;

fork (philosopher), 1, 2) ;

fork (philosopher), 1, 3) ;

fork (philosopher), 4, 0) ;