/\* program Bank Simulation \*/

Semaphore bank\_teller = 2

Semaphore loan\_officer = 1

Semaphore customer\_ready\_teller = 0, customer\_ready\_loaner = 0, customer\_leave\_teller = 0,

customer\_leave\_loaner = 0,

void Customer()

{

Randomize\_request()

If (deposit):

Wait()

Go\_to\_teller()

Signal(cust\_ready)

Wait(finished)

Leave\_teller()

Signal(leave\_teller)

Exit\_bank()

If (withdrawal):

Wait()

Go\_to\_teller()

Signal(cust\_ready)

Wait(finished)

Leave\_teller()

Signal(leave\_teller)

Exit\_bank()

If (loan):

Wait()

Go\_to\_loaner()

Signal(cust\_ready)

Wait(finished)

Leave\_loaner ()

Signal(leave\_ loaner)

Exit\_bank()

}

Void loaner()

{

Wait(cust

}