Int main()

	Abrir(Art, IndDesc, Rub, ListCmpr)	
	VolcarArchivos(Art, IndDesc, Rub, ListCmpr, vsArt, vsIndDesc, vsRub, vsListCmpr, cantArt, cantCmpr)	
	ProcCompras(Art, vsArt, vsIndDesc, vsListCmpr, cantArt, cantCmpr)	
	EmitirTicket(vsArt, vsIndDesc, vsListCmpr, cantArt, cantCmpr)	
	EmitirArt_x_Rubro(vsArt, vsRub, cantArt)	
	Cerrar(Art, IndDesc, Rub, ListCmpr)	
retornar 0		

R

long GetTime(int S:hh, int S:mm, int S:ss)

time(&rawtime)		
timeinfo ← localtime(&rawtime)		
hh ← timeinfo.tm_hour		
mm ← timeinfo.tm_min		
ss ← timeinfo.tm_sec		
retornar timeinfo.tm_hour * 10000 + timeinfo.tm_min * 100 + timeinfo.tm_sec		

R

long GetDate(int S:year, int S:mes, int S:dia, int S:ds)

	time(&rawtime)		
	timeinfo ← localtime(&rawtime)		
	year ← 1900 + timeinfo.tm_year		
mes — 1 + timeinfo.tm_mon			
	dia ← timeinfo.tm_mday		
	ds — 1 + timeinfo.tm_wday		
	retornar (1900 + timeinfo.tm_year) * 10000 + (1 + timeinfo.tm_mon) * 100 + timeinfo.tm_mday		

bool LeerArticulo(fstream &Art, tsArt &sArt)	
Art >> sArt.codVen >> sArt.codRub	
Art.ignore()	
Art.get(sArt.descArt, 31)	
Art >> sArt.stock >> sArt.preUni	
Art.ignore()	
Art.get(sArt.medida, 31)	
i ← 0 ↑ i < 14	
Art >> sArt.ofertas[i]	
Art.ignore(2, '\n')	
retornar Art.good()	
R	
bool LeerIndDescrip(ifstream &IndDesc, tsIndDesc &sIndDesc)	
IndDesc.get(sIndDesc.descArt, 31)	
IndDesc >> sIndDesc.posArt >> sIndDesc.estado	
IndDesc.ignore(2, '\n')	
strlwr(sIndDesc.descArt)	
retornar IndDesc.good()	
$oxed{R}$	
bool LeerRubro(ifstream &Rub, tsRub &sRub)	
Rub >> sRub.codRub	
Rub.ignore()	
Rub.get(sRub.descRub, 21)	
Rub.ignore(2, '\n')	
retornar Rub.good()	
R	
bool LeerCompra(ifstream &ListCmpr, tsCompra &sCompra)	
ListCmpr.get(sCompra.descArt, 31)	
ListCmpr >> sCompra.cantReq	
ListCmpr.ignore(2, '\n')	
retornar ListCmpr.good()	
R	

void PieTicket(float impTot, float impTotDesto, float impTotConDesto)

R

void CabeceraTicket(int &ds)

```
GetTime(hh, mm, ss)

GetDate(anio, mes, dia, ds)

*diasSemana[] ← {"Domingo", "Lunes", "Martes", "Miercoles", "Jueves", "Viernes", "Sabado"}

"K O T T O"

"Yo te reconozco"

"SUC 170"

"XXXXXX...X 9999"

"XX...X"

"C.U.I.T. 99-99999999-9"

"Fecha: ", diasSemana[ds - 1], " ", dia ,"/" ,mes, "/", anio,

"Hora: ", hh, ":", mm ,":", ss,

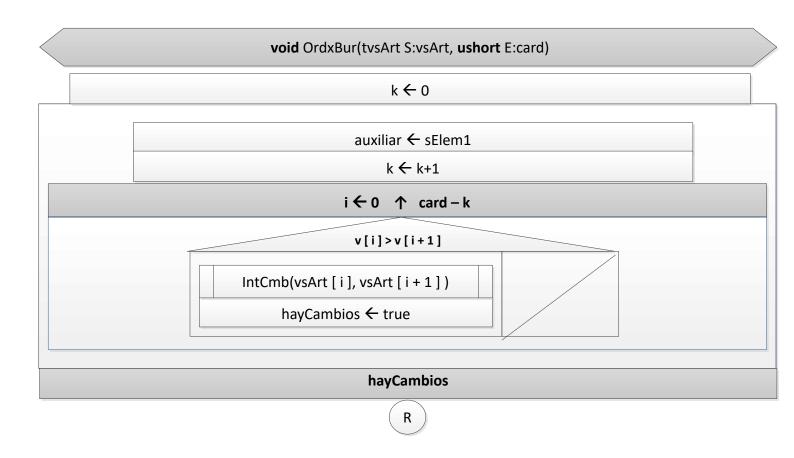
"Nro. Ticket: 9999-9999999"

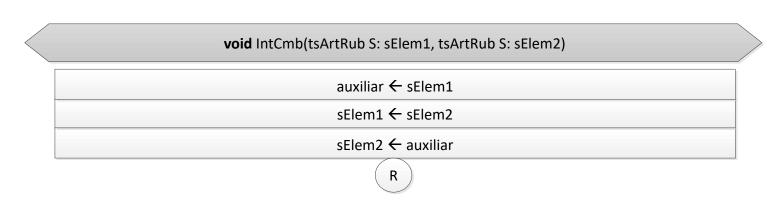
"Nro. Caja: 9999"

"F A C T U R A - B"

"ORIGINAL"

"_______"
```





void ActLinea(fstream &Art, tsArt &sArt)

Salida a Art:

sArt.codVen, " ", sArt.codRub, " ", sArt.descArt, " ", sArt.stock, " ", sArt.preUni, " ", sArt.medida

j ← 0 ↑ j < 7

Salida a Art:
" ", sArt.ofertas[2 * j+1]



void VolcarArchivos(ARCHIVOS, REGISTROS, ushort S:cantArt, ushort S:cantCmpr)

cantArt ← 0

 $cantCmpr \leftarrow 0$

LeerArticulo(Art, sArt) ^ cantArt < MAX_ART

 $vsArtRub[cantArt].codRub \leftarrow sArt.codRub$

vsArtRub[cantArt].posArt ← cantArt

cantArt ← cantArt + 1

i ← 0 ↑ LeerDescripcion(IndDesc, sIndDesc) ^ i < cantArt

vsIndDesc[i] ← sIndDesc

i ← 0 ↑ LeerRubro(Rub, sRub) ^ i < CANT_RUB

vsRub[i] ← sRub

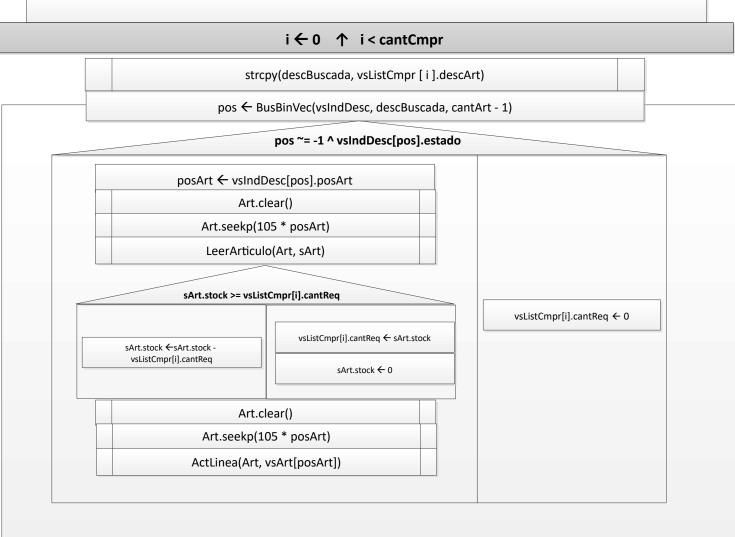
LeerCompra(ListCmpr, sCompra) ^ cantCmpr < MAX_COMPRAS

vsListCmpr[cantCmpr] ← sCompra

cantCmpr ← cantCmpr + 1

OrdxBur(vsArtRub, cantArt)

void ProcCompras(fstream &Art, tvsIndDesc &vsIndDesc, tvsListCmpr &vsListCmpr, ushort cantArt, ushort cantCmpr)



cantCmpr) impTot ← 0.0f impTotDesto \leftarrow 0.0f freopen("ticket.txt", "w", stdout) CabeceraTicket(ds) i ← 0 ↑ i < cantCmpr vsListCmpr[i].cantReq > 0 pos ← BusBinVec(vsIndDesc, vsListCmpr[i].descArt, cantArt - 1); pos > -1 Art.clear() Art. seekp(105 * vsIndDesc[pos].posArt); LeerArticulo(Art, sArt); cant ← vsListCmpr[i].cantReq precio ← sArt.preUni subtotal ← cant * precio tipo ← sArt.ofertas[(ds - 1) * 2] porc \leftarrow sArt.ofertas[(ds - 1) * 2 + 1] descuento ← 0.0f tipo >= 2 ^ tipo <= 7 descuento ← subtotal * porc / 100.0f tipo case 4 case 2 case 3 case 5 case 6 case 7 default strcpy(strDesc, "Promo") strcpy(strDesc, "Marca") strcpy(strDesc, "MercPago") strcpy(strDesc strcpy(strDesc, "SinPromo") strcpy(strDesc, strcpv(strDesc "Jub.") "Comunid.") " x \$ ", precio sArt.descArt, " ", sArt.medida Sart.codVen, "\$ ", subtotal descuento > 0.0f StrDesc, porc, "\$ ", -descuento impTot ← impTot + subtotal impTotDesto ← impTotDesto + descuento impTotConDesto ← impTot - impTotDesto PieTicket(impTot, impTotDesto, impTotConDesto)

R

void EmitirTicket(fstream &Art, tvsIndDesc &vsIndDesc, tvsListCmpr &vsListCmpr, ushort cantArt, ushort

codRubro ← 200 posRubro ← -1 "Listado de Articulos ordenados por Codigo de Rubro" i ← 0 ↑ i < cantArt Art.clear() Art.seekp(105 * vsArtRub[i].posArt) LeerArticulo(Art, sArt) i ~= 0 codRubro ~= sArt.codRub codRubro ← sArt.codRub posRubro ← posRubro + 1 PosRubro < 15 ^ codRubro ~= vsRub[posRubro].codRub "Cod. Rubro: ", codRubro, " ", vsRub [posRubro].descRub "Cod.Art. Descripción", "Stk. Prec.Uni. Uni.Medida TD % TD % TD % TD % TD % TD % TD %" Sart.codVen, "", sArt.descArt, "", sArt.stock, "", sArt.preUni, "", sArt.medida j ← 0 ↑ j < 7 " ", sArt.ofertas[2 * j], " ", sArt.ofertas[2 * j + 1] fclose(stdout) void Cerrar(ARCHIVOS) Art.close() IndDesc.close() Rub.close() ListCmpr.close()

void EmitirArt_x_Rubro(fstream &Art, tvsArtRub &vsArtRub, tvsRub &vsRub, ushort cantArt)