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Departamento de Ciencias de la Computación (DCCO)

Ingeniería en Tecnologías de la Información

Metodología de Desarrollo de Software

## **Caso de estudio: Sistema de Empresa Hongos secos de primavera**

**NOMBRE: Joel Llumiquinga**

**Ailla Lizeth**

**Ulcuango Merlyn**

Caja Blanca Versión 1.0

Docente: Ing. Jenny Ruíz

## CASO DE PRUEBA INGRESO AL SISTEMA PRUEBA CAJA BLANCA INGRESAR

```
$consulta = "SELECT* FROM Personal where usuario = '$USUARIO' and password = '$PASSWORD' ";
$resultado= mysqli_query($conexion, $consulta);

$filas=mysqli_num_rows($resultado);

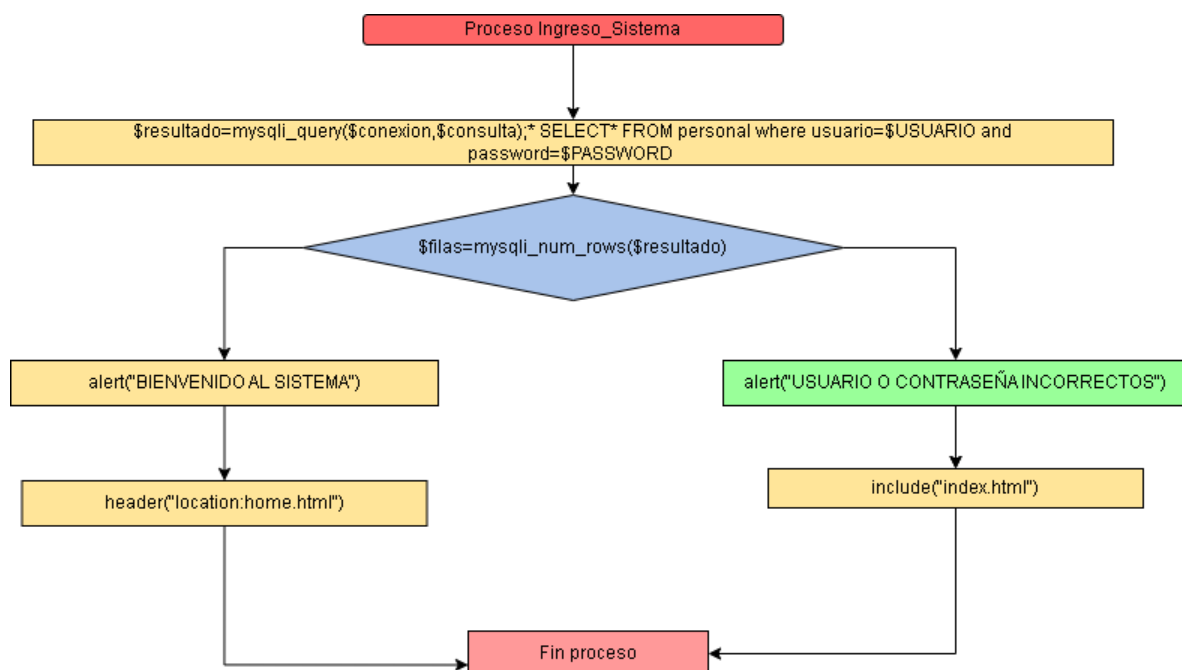
if($filas){
    header("location:home.html");
    ?>
    <script>
    alert("BIENVENIDO AL SISTEMA");
    </script>
    <?php

}else{
    include("index.html");
    ?>
    <script>
    alert("USUARIO O CONTRASEÑA INCORRECTOS");
    </script>
    <?php

}

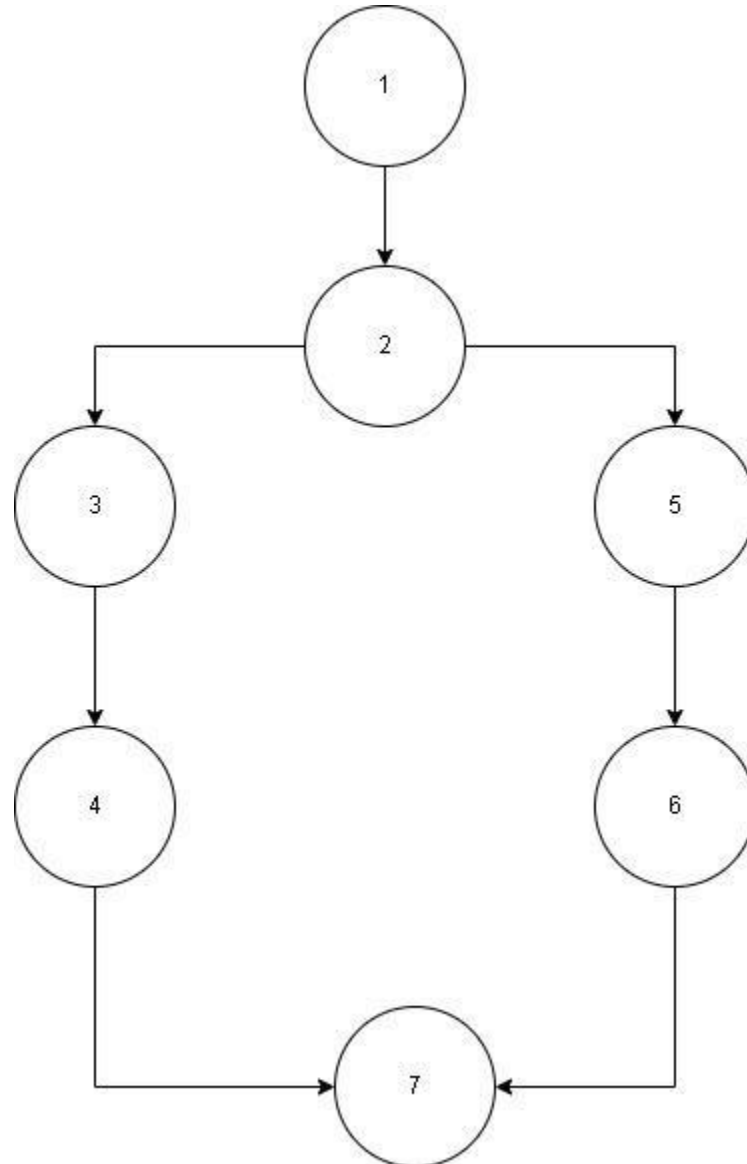
mysqli_free_result($resultado);
mysqli_close($conexion);
```

### Diagrama de flujo:



## CASO DE PRUEBA

Diagrama de grafos:



**RUTAS:**  
**R1=1,2,3,4,7**  
**R2=1,2,5,6,7**

### Complejidad Ciclomática

E: Número de aristas = 7

N: Número de nodos= 7

P: Número de nodos predicado= 2

$$V(G) = E - N + 2$$

$$V(G) = P + 1$$

$$V(G)=7-7+2$$

$$V(G)=2$$

$$V(G)=P+1$$

$$V(G) = 1 \text{ nodo predicado} + 1 = 2$$

## PRUEBA CAJA BLANCA ACTUALIZACION DE STOCK

```
$id = $_GET['id'];
$sentencia = $connect->prepare("SELECT productos.idprod, productos.codpro, productos.nomprd, productos.desprd, productos.foto, productos.precio
$sentencia->execute();

$data = array();
if($sentencia){
    while($r = $sentencia->fetchObject()){
        $data[] = $r;
    }
}
?>
<?php if(count($data)>0):?>
    <?php foreach($data as $d):?>
<form action="" enctype="multipart/form-data" method="POST" autocomplete="off">
    <div class="container">
        <h1>Actualizar stock del producto</h1>
        <div class="alert-danger">
            <span class="closebtn" onclick="this.parentElement.style.display='none';">&times;</span>
            <strong>Importante!</strong> Es importante rellenar los campos con &nbsp;<span class="badge-warning">*</span>
        </div>
        <hr>
        <br>

        <input type="hidden" value="<?php echo $d->idprod; ?>" name="prdid">

        <label for="email"><b>Nombre del producto</b></label><span class="badge-warning">*</span>
        <input disabled type="text" value="<?php echo $d->nomprd; ?>" placeholder="ejm: producto" required>

        <label for="email"><b>Stock del producto</b></label><span class="badge-warning">*</span>
        <input type="text" maxlength="3" onkeypress="if (event.keyCode < 45 || event.keyCode > 57) event.returnValue = false;" value="<?php echo $d->stock; ?>">

    </div>
</form>
</div>
</div>
```

```
</div>

<button type="submit" name="upd_prodt_stock" class="registerbtn">Guardar</button>
</div>
</form>

<?php endforeach; ?>

<?php else: ?>
    <p class="alert alert-warning">No hay datos</p>
<?php endif; ?>

</div>
</main>
</div>

<script src="../../backend/js/jquery.min.js"></script>

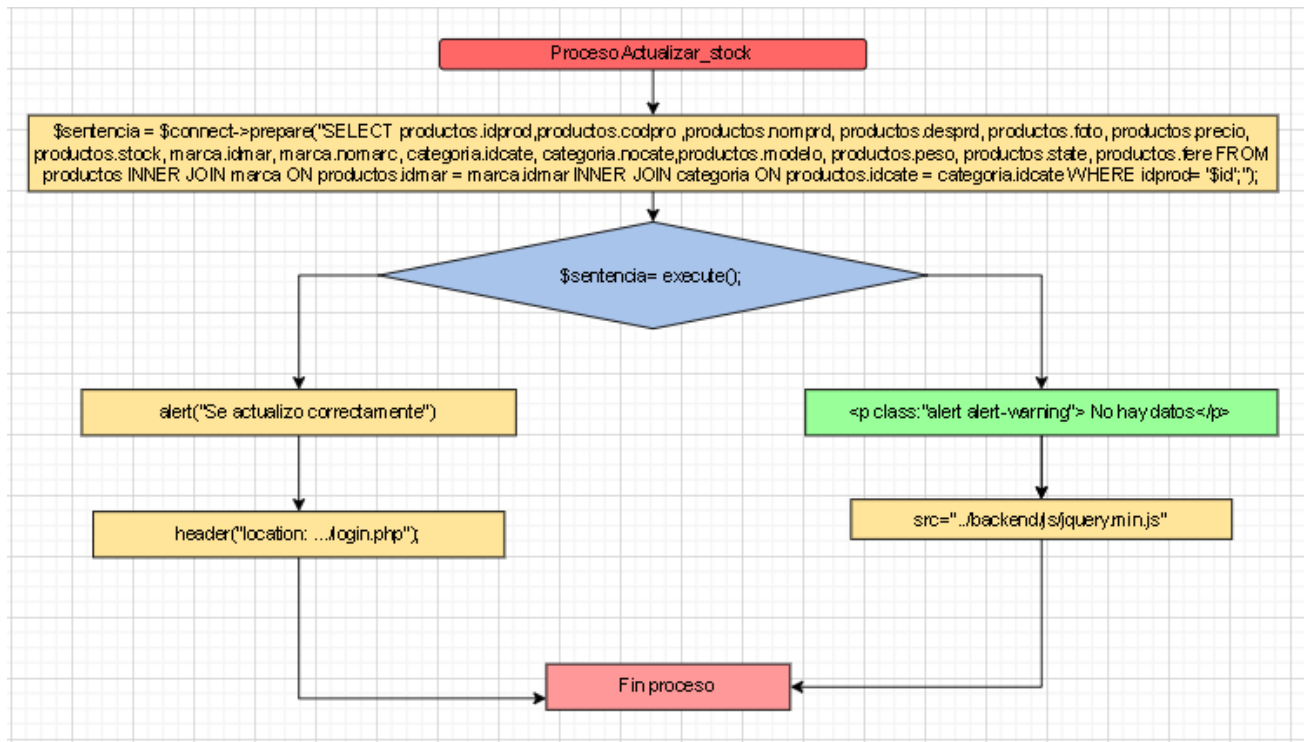
<script type="text/javascript">
    $(window).on("load",function(){
        $(".load_animation").fadeOut(1000);
    });
</script>

<script type="module" src="https://unpkg.com/ionicons@5.5.2/dist/ionicons/ionicons.esm.js"></script>
<script nomodule src="https://unpkg.com/ionicons@5.5.2/dist/ionicons/ionicons.js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/sweetalert/2.1.2/sweetalert.min.js"></script>
<?php include_once '../../backend/php/upd_prodt_stock.php' ?>
<script type="text/javascript" src="../../backend/js/reenvio.js"></script>
```

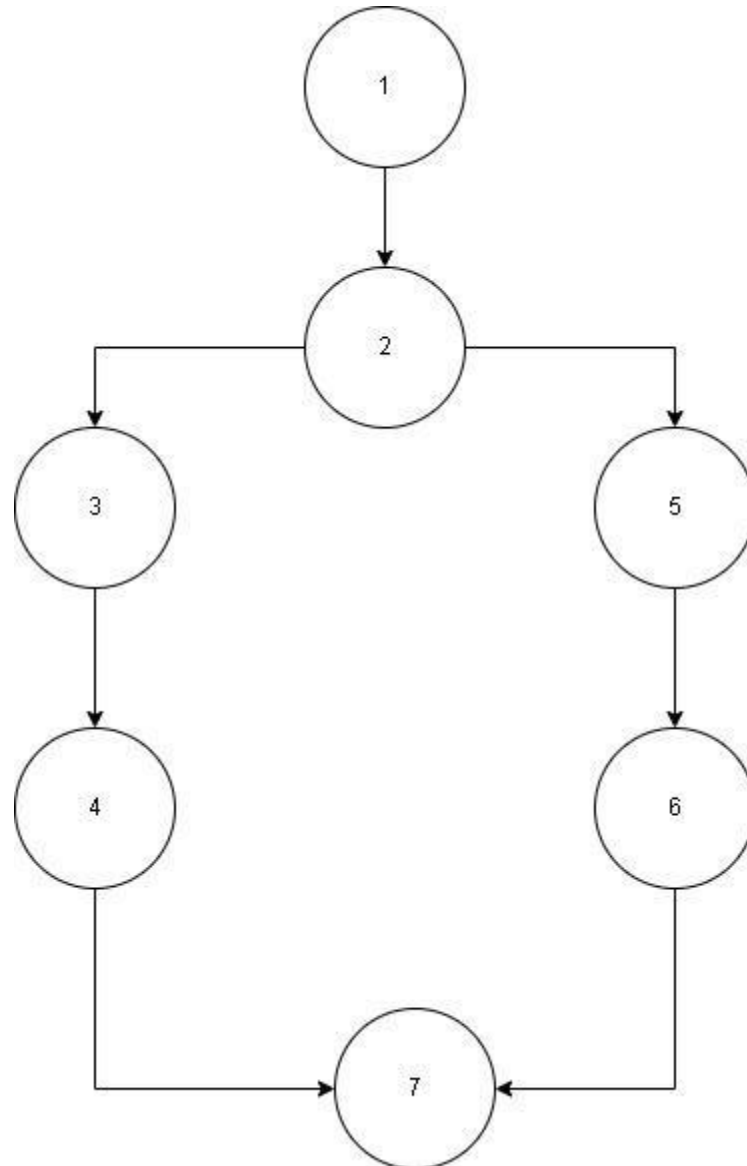
```
</body>
</html>

<?php }else{
    header('Location: ../login.php');
} ?>
```

### Diagrama de flujo:



**Diagrama de grafos:**



**RUTAS:**  
**R1=1,2,3,4,7**  
**R2=1,2,5,6,7**

**Complejidad Ciclomática**

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$$V(G) = E - N + 2$$

$$V(G) = P + 1$$

$$V(G)=7-7+2$$

$$V(G)=2$$



$$V(G)=P+1$$

$$V(G) = 1 \text{ nodo predicado} + 1$$

## PRUEBA CAJA BLANCA REGISTRAR CLIENTES

```
$id = $_GET['id'];
$sentencia = $connect->prepare("SELECT * FROM clientes WHERE idcli = '$id'");
$sentencia->execute();

$data = array();
if($sentencia){
    while($r = $sentencia->fetchObject()){
        $data[] = $r;
    }
}

<?php if(count($data)>0):?>
    <?php foreach($data as $d):?>
<form action="" enctype="multipart/form-data" method="POST" autocomplete="off">
<div class="containerss">
    <h1>Actualizar a los clientes</h1>
    <div class="alert-danger">
    <span class="closebtn" onclick="this.parentElement.style.display='none';">&times;</span>
    <strong>Importante!</strong> Es importante rellenar los campos con &nbsp;<span class="badge-warning">*</span>
</div>
<hr>
<br>

<label for="psw"><b>Tipo de documento</b></label><span class="badge-warning">*</span>
<select required name="tipcl">
    <option value="<?php echo $d->tipd; ?>"><?php echo $d->tipd; ?></option>
    <option>-----Seleccione-----</option>
    <option value="dni">CEDULA</option>
</select>

<label for="email"><b>Número del documento</b></label><span class="badge-warning">*</span>
<input type="text" value="<?php echo $d->nudoc; ?>" maxlength="8" onkeypress="if (event.keyCode < 45 || event.keyCode > 57) event.returnv
<label for="email"><b>Nombre del cliente</b></label>
<input type="text" name="namcl" value="<?php echo $d->nocl; ?>" placeholder="ejm: jjalver">
```

```
<label for="email"><b>Apellido del cliente</b></label>
<input type="text" name="apecl" value="<?php echo $d->apcl; ?>" placeholder="ejm: zapata">

<label for="email"><b>Teléfono celular del cliente</b></label><span class="badge-warning">*</span>
<input type="text" value="<?php echo $d->telfcl; ?>" maxlength="9" onkeypress="if (event.keyCode < 45 || event.keyCode > 57) event.returnv

<label for="email"><b>Nombre del usuario cliente</b></label><span class="badge-warning">*</span>
<input type="text" value="<?php echo $d->username; ?>" placeholder="ejm: jjalver" name="usrcl" required>
<input type="hidden" name="clid" value="<?php echo $d->idcli; ?>">

<hr>

<button type="submit" name="upd_customer" class="registerbtn">Guardar</button>
</div>
</form>
<?php endforeach; ?>

<?php else:?>
    <p class="alert alert-warning">No hay datos</p>
<?php endif; ?>

</div>
</main>

</div>
<script src="../../../backend/js/jquery.min.js"></script>

<script type="text/javascript">
    $(window).on("load",function(){
        $(".load_animation").fadeOut(1000);
    });
</script>

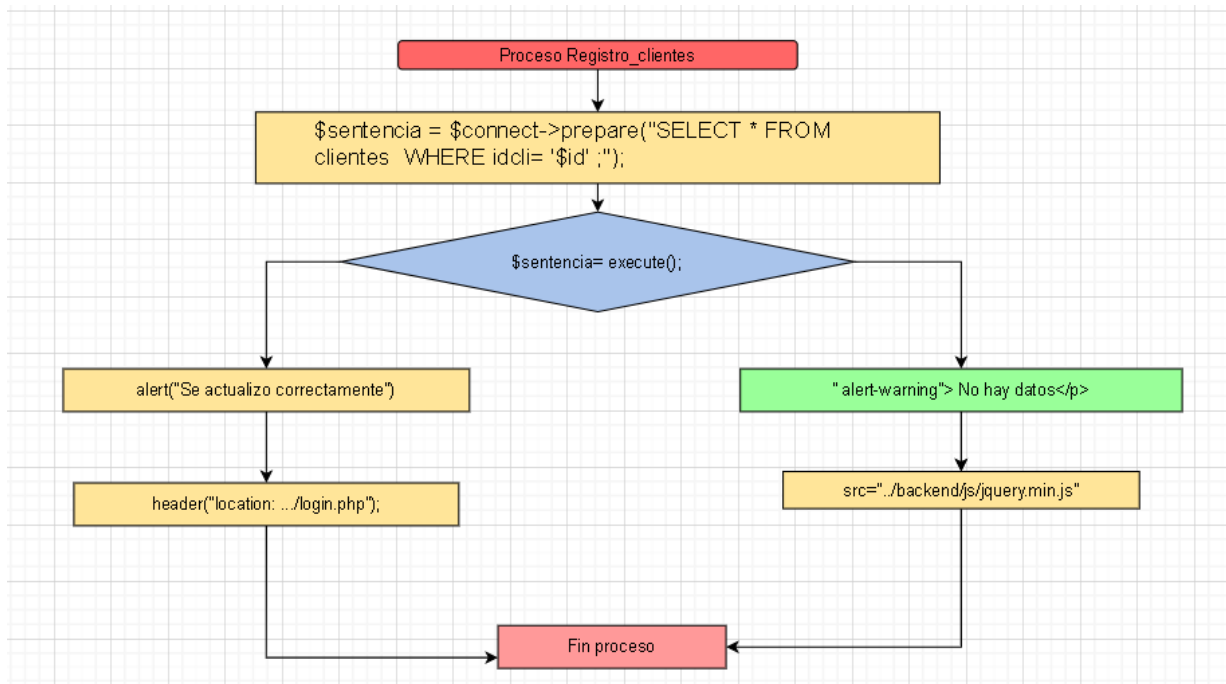
<script type="module" src="https://unpkg.com/ionicons@5.5.2/dist/ionicons/ionicons.esm.js"></script>
```



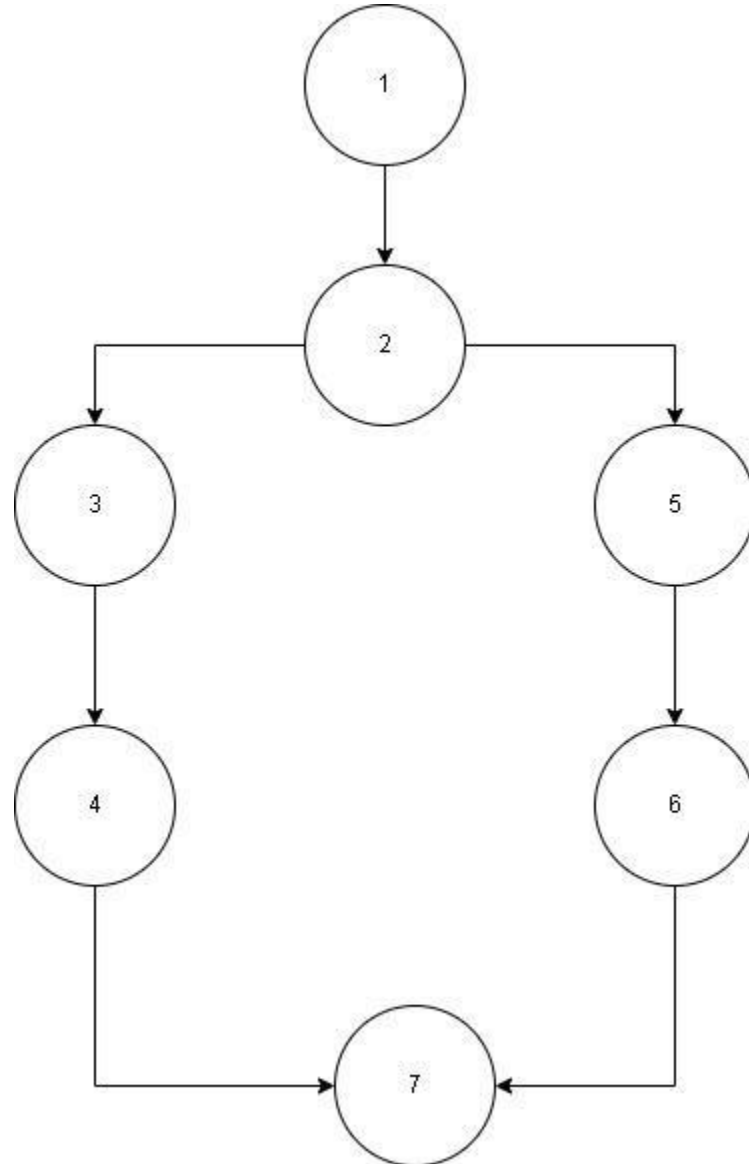
```
<script nomodule src="https://unpkg.com/ionicons@5.5.2/dist/ionicons/ionicons.js"></script>
<script src="https://cdn.jsdelivr.net/npm/sweetalert2@11/dist/sweetalert2.min.js"></script>
<?php include_once '../backend/php/upd_customer.php' ?>
<script type="text/javascript" src="../backend/js/reenvio.js"></script>
</body>
</html>

<?php }else{
    header('Location: ../login.php');
} ?>
```

## Diagrama de flujo:



### Diagrama de grafos:



#### RUTAS:

**R1=1,2,3,4,7**

**R2=1,2,5,6,7**

#### Complejidad Ciclomática

E: Número de aristas = 7

N: Número de nodos= 7

P: Número de nodos predicado= 2

$$V(G) = E - N + 2$$

$$V(G) = P + 1$$

$$V(G)=7-7+2$$

$$V(G)=2$$

$$V(G)=P+1$$



---

$V(G) = 1 \text{ nodo predicado} + 1$

## PRUEBA CAJA BLANCA REGISTRAR CATEGORIA PRODUCTO

```
$sentencia = $connect->prepare("SELECT * FROM categoria ORDER BY idcate DESC;");
$sentencia->execute();
$data = array();
if($sentencia){
    while($r = $sentencia->fetchObject()){
        $data[] = $r;
    }
}

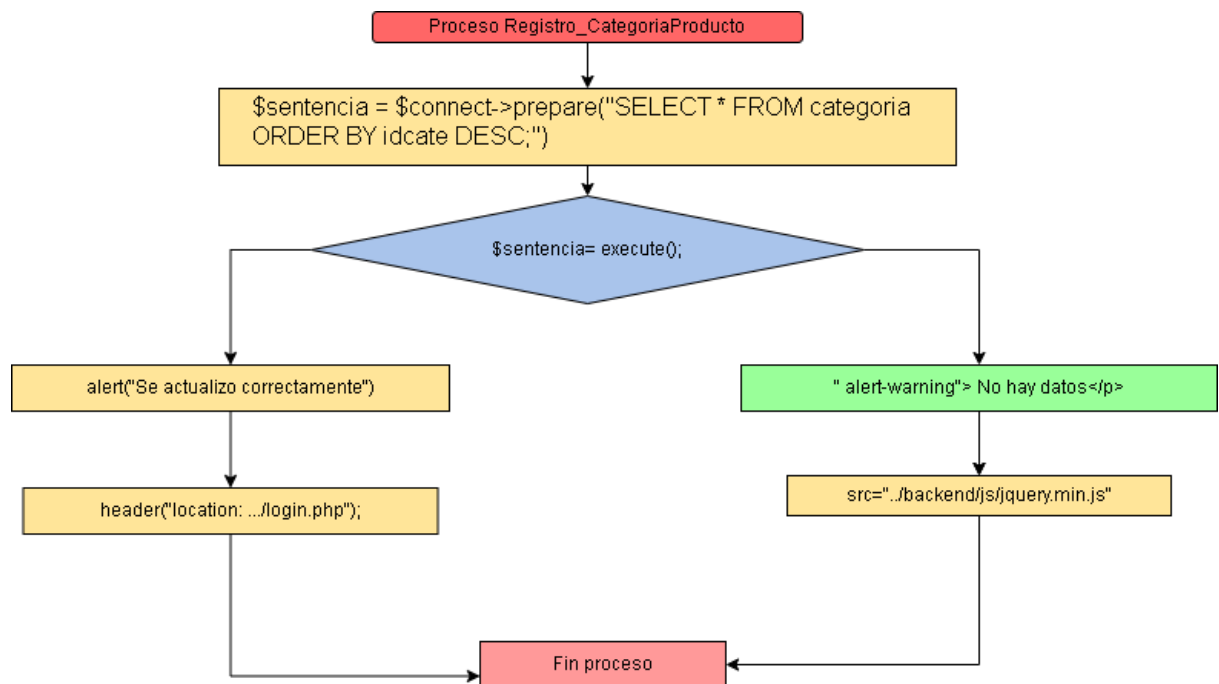
<?php if(count($data)>0):?>
    <table width="100%" id="example">
        <thead>
            <tr>
                <th>#</th>
                <th><span class="las la-sort"></span>Nombre</th>
                <th><span class="las la-sort"></span>Estado</th>
                <th><span class="las la-sort"></span>Acciones</th>
            </tr>
        </thead>
        <tbody>
            <?php foreach($data as $d):?>
                <tr>
                    <td><?php echo $d->idcate ?></td>
                    <td>
                        <div class="client">
                            <div class="client-info">
                                <h4><?php echo $d->nocate ?></h4>
                            </div>
                        </div>
                    </td>
                    <td data-title="Estado">
                        <label class="switch">
                            <input type="checkbox" id="<?=$d->idcate?" value="<?=$d->state ?>" <?=$d->state == '1' ? 'checked' : '' ;?>/>
                            <span class="slider"></span>
                        </label>
                    </td>
                    <td>
                        <a title="Actualizar" href=" ../categorias/editar.php?id=<?php echo $d->idcate ?>" class="fa fa-pencil t"></a>
                        <form onsubmit="return confirm('Realmente desea eliminar el registro?');" method='POST' action='<?php $>
                        <input type='hidden' name='idcate' value="<?php echo $d->idcate; ?>">
                        <button name='delete_category' style="cursor: pointer;" class="fa fa-trash"></button>
                    </form>
                </td>
            </tr>
            <?php endforeach; ?>
        </tbody>
    </table>
    <?php else:?>
        <div class="alert">
            <span class="closebtn" onclick="this.parentElement.style.display='none';">&times;</span>
            <strong>Danger!</strong> No hay datos.
        </div>
    <?php endif; ?>
</div>
</div>
</div>
</main>
```

```

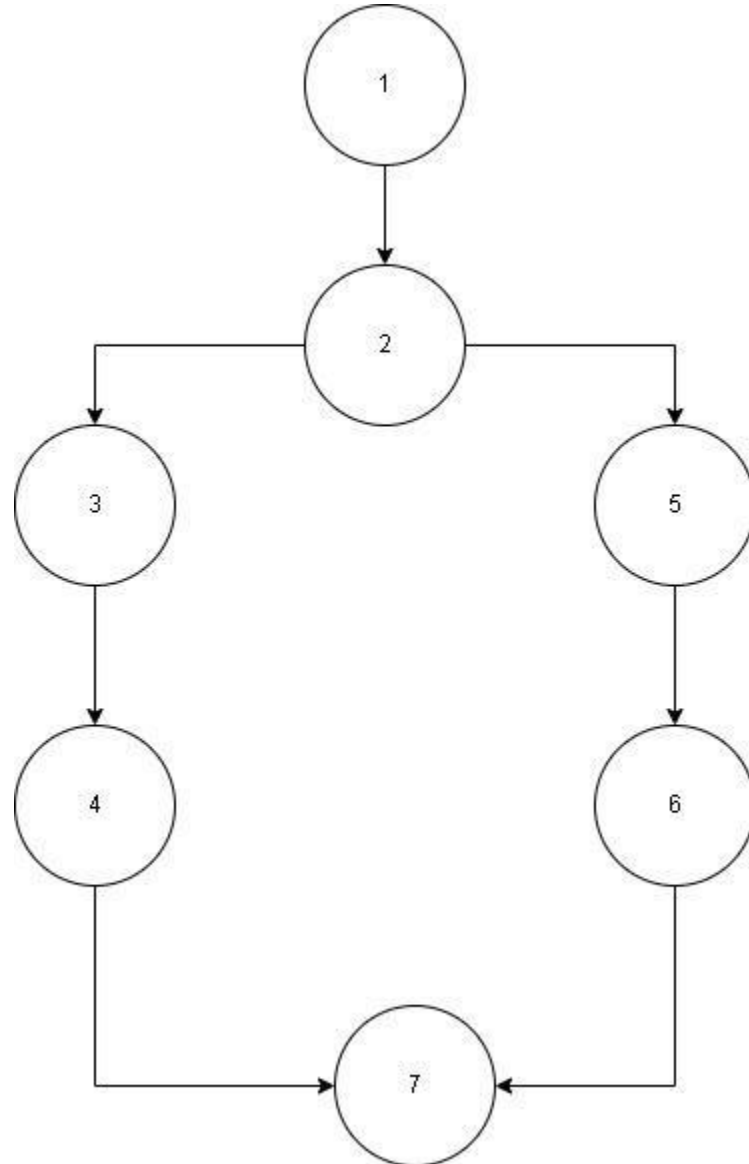
<script nomodule src="https://unpkg.com/ionicons@5.5.2/dist/ionicons/ionicons.js"></script>
<script src="https://cdn.jsdelivr.net/npm/sweetalert2@11/dist/sweetalert2.min.js"></script>
<?php include_once '../backend/php/upd_customer.php' ?>
<script type="text/javascript" src="../../backend/js/reenvio.js"></script>
</body>
</html>

<?php }else{
    header('Location: ../login.php');
} ?>
    
```

## Diagrama de flujo:



### Diagrama de grafos:



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$$V(G)=2$$

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$V(G) = 1 \text{ nodo predicado} + 1$

## PRUEBA CAJA BLANCA REGISTRAR PROVEEDORES

```
$sentencia = $connect->prepare("SELECT * FROM proveedores WHERE idprov= '$id'");
$sentencia->execute();

$data = array();
if($sentencia){
    while($r = $sentencia->fetchObject()){
        $data[] = $r;
    }
}

?>
<?php if(count($data)>0):?>
    <?php foreach($data as $d):?>
<form action="" enctype="multipart/form-data" method="POST" autocomplete="off">
<div class="containerss">
    <h1>Actualizar proveedores</h1>
    <div class="alert-danger">
<span class="closebtn" onclick="this.parentElement.style.display='none';">&times;</span>
<strong>Importante!</strong> Es importante rellenar los campos con &nbsp;<span class="badge-warning">*</span>
</div>
<hr>
<br>

<label for="email"><b>Ruc del proveedor</b></label><span class="badge-warning">*</span>
<input type="text" value="<?php echo $d->rucprv; ?>" maxlength="11" onkeypress="if (event.keyCode < 45 || event.keyCode > 57) event.return
<input type="hidden" name="suppid" value="<?php echo $d->idprov; ?>">

<label for="email"><b>Nombre del proveedor</b></label><span class="badge-warning">*</span>
<input type="text" value="<?php echo $d->nomprv; ?>" placeholder="ejm: Wong" name="nomprv" required>

<label for="email"><b>Correo del proveedor</b></label>
<input type="text" value="<?php echo $d->corrprv; ?>" name="corrprv" >

<hr>
```



```
<button type="submit" name="upd_supplier" class="registerbtn">Guardar</button>
</div>

</form>
<?php endforeach; ?>

<?php else:?>
    <p class="alert alert-warning">No hay datos</p>
<?php endif; ?>

    </div>

</main>

</div>
<script src="../../backend/js/jquery.min.js"></script>

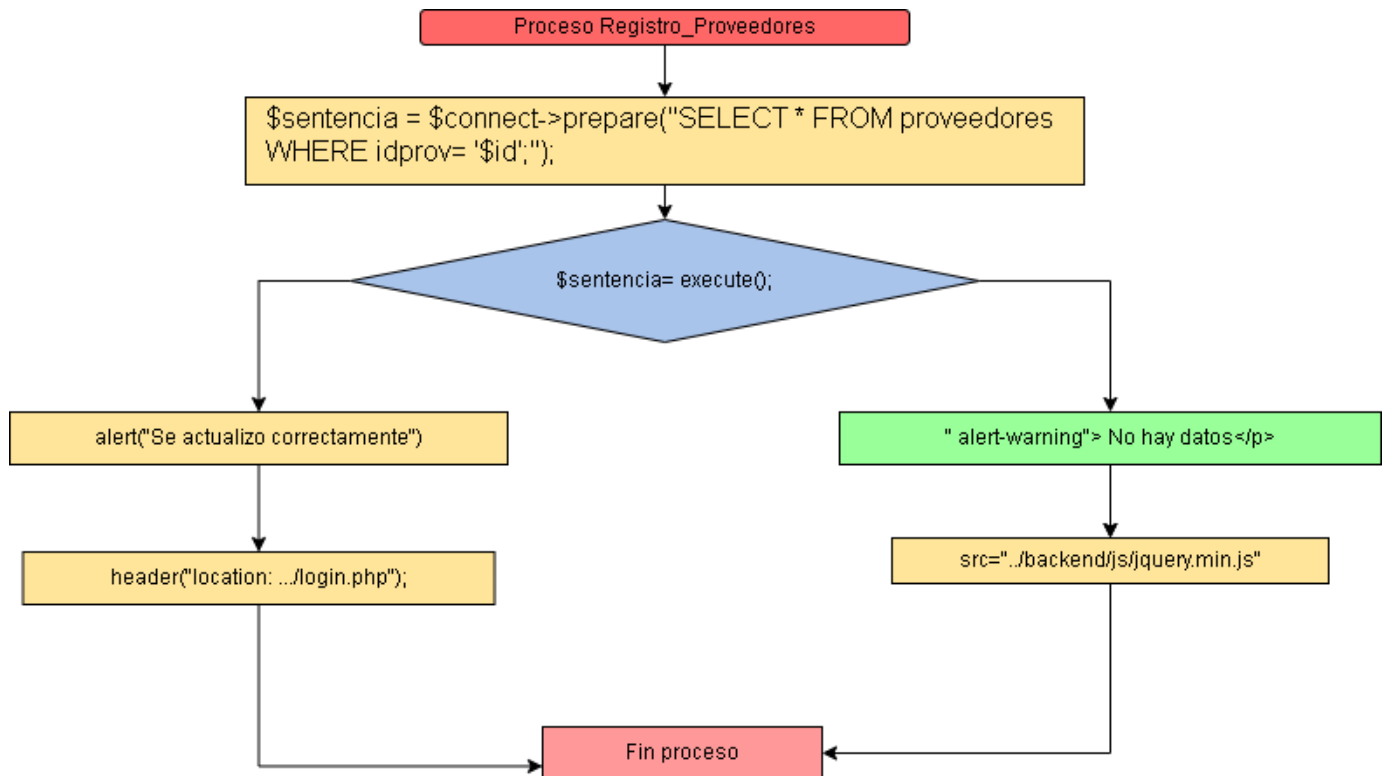
<script type="text/javascript">
    $(window).on("load",function(){
        $(".load_animation").fadeOut(1000);
    });
</script>

<script type="module" src="https://unpkg.com/ionicons@5.5.2/dist/ionicons/ionicons.esm.js"></script>
<script nomodule src="https://unpkg.com/ionicons@5.5.2/dist/ionicons/ionicons.js"></script>
<script src="https://cdn.jsdelivr.net/npm/sweetalert2@11"></script>
<?php include_once '../../backend/php/upd_supplier.php' ?>
<script type="text/javascript" src="../../backend/js/reenvio.js"></script>
</body>
</html>

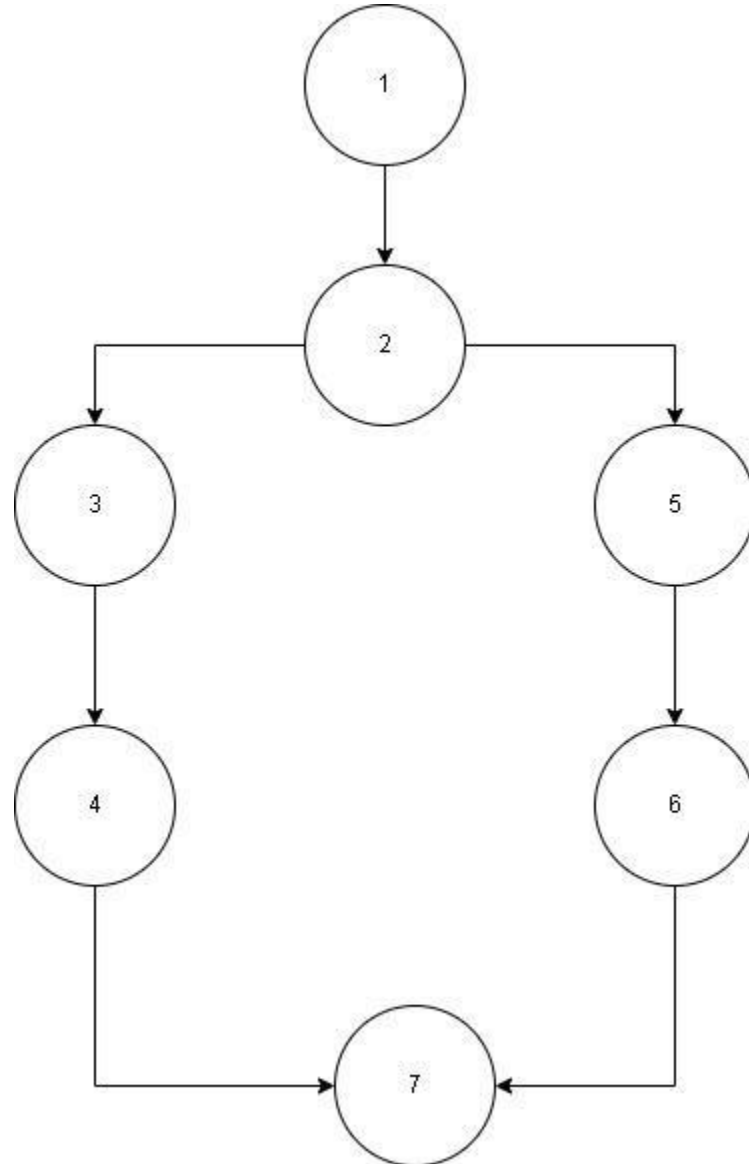
<?php }else{
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### Diagrama de flujo:



### Diagrama de grafos:



**RUTAS:**  
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$V(G) = 1 \text{ nodo predicado} + 1$

## PRUEBA CAJA BLANCA REGISTRAR COMPRAS/VENTAS

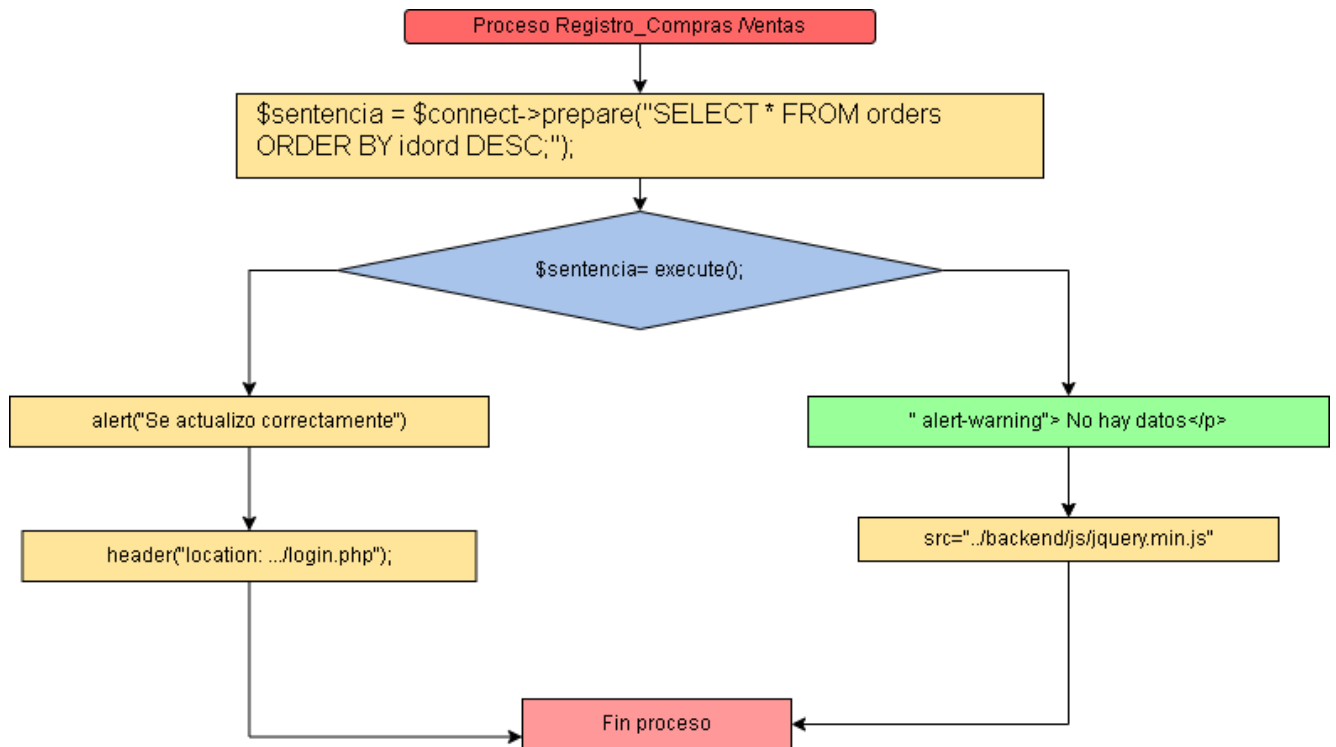
```

<?php
require '../backend/config/Conexion.php';
$sentencia = $connect->prepare("SELECT * FROM orders ORDER BY idordr DESC;");
$sentencia->execute();
$data = array();
if($sentencia){
    while($r = $sentencia->fetchObject()){
        $data[] = $r;
    }
}

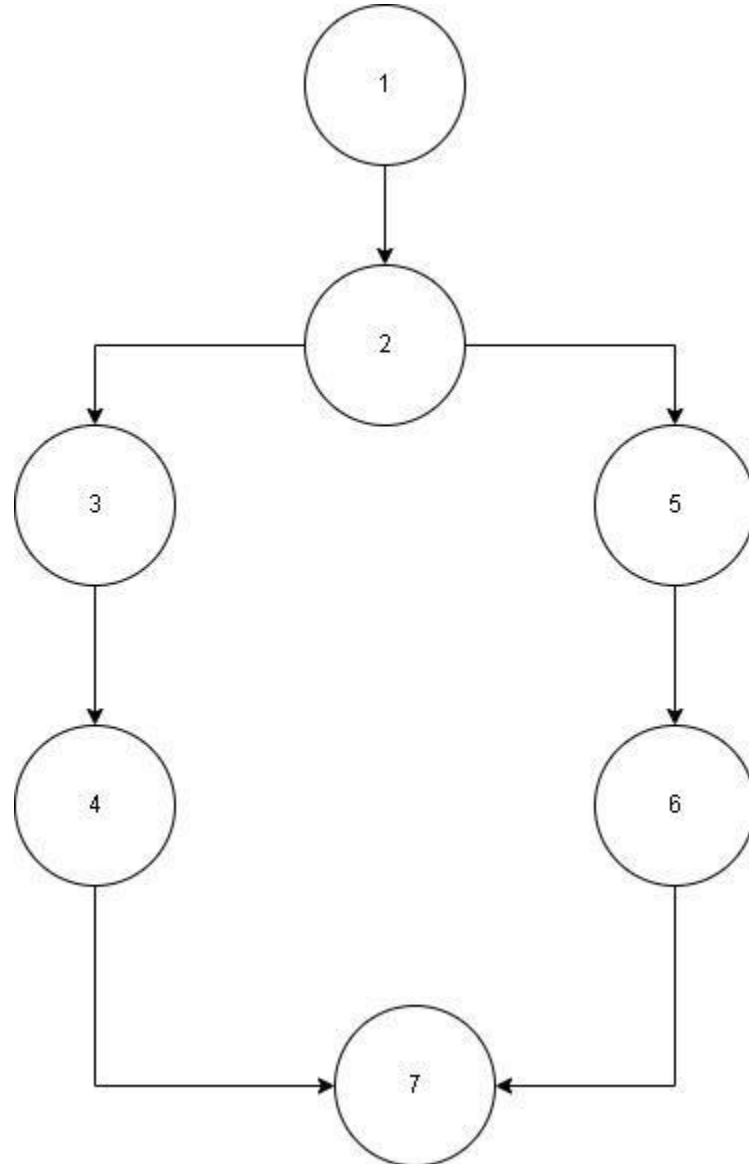
?>
<?php if(count($data)>0):?>
    <table width="100%" id="example">
        <thead>
            <tr>
                <th>#</th>
                <th><span class="las la-sort"></span>Comprobante</th>
                <th><span class="las la-sort"></span>Fecha</th>
                <th><span class="las la-sort"></span>Total</th>
                <th><span class="las la-sort"></span>Cliente</th>
                <th><span class="las la-sort"></span>Productos</th>
                <th><span class="las la-sort"></span>Estado</th>
                <th><span class="las la-sort"></span>Acciones</th>
            </tr>
        </thead>
        <tbody>
            <?php foreach($data as $d):?>
                <tr>
                    <td><?php echo $d->idordr ?></td>
                    <td><h4><?php echo $d->tipc ?></h4></td>
                    <td><h4><?php echo $d->placed_on ?></h4></td>
                    <td><h4>$/<?php echo number_format($d->total_price, 2); ?></h4></td>
                    <td>
                        <div class="client">
                            <div class="client-info">
                                <h4><?php echo $d->nomcl ?></h4>
                            </div>
                        </div>
                    </td>
                    <td><h4><?php echo $d->total_products ?></h4></td>
                    <td data-title="Estado">
                        <label class="switch">
                            <input type="checkbox" id="<?=$d->idordr?>" value="<?=$d->payment_status ?>" <?=$d->payment_status == 'Aceptado' ? 'checked' : ''>
                            <span class="slider"></span>
                        </label>
                    </td>
                </tr>
            <?php endforeach; ?>
        </tbody>
    </table>
    <?php else:?>
        <div class="alert">
            <span class="closebtn" onclick="this.parentElement.style.display='none';">&times;</span>
            <strong>¡Error!</strong> No hay datos.
        </div>
    </?php>

```

## Diagrama de flujo:



### Diagrama de grafos:



**RUTAS:**  
**R1=1,2,3,4,7**  
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---

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