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```

```
position
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          </lowerValue>
          <upperValue xsi:type="uml:LiteralUnlimitedNatural"</pre>
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            <eAnnotations xmi:id="_QgMt4SdCEem8L7GnWj5llQ" source="genmymodel">
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value="_m1Jvpic9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
          </upperValue>
        </ownedParameter>
        <ownedParameter xmi:id="_QgMt4ydCEem8L7GnWj511Q" name="toolNames"</pre>
isUnique="false">
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value="_m1Jvpyc9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
          <type xsi:type="uml:PrimitiveType"
href="pathmap://UML_LIBRARIES/UMLPrimitiveTypes.library.uml#//String"/>
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xmi:id="_QgMt5idCEem8L7GnWj5llQ">
            <eAnnotations xmi:id="_QgMt5ydCEem8L7GnWj51lQ" source="genmymodel">
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value=" m1JvgCc9EemVJ-LgVHoD00"/>
            </eAnnotations>
          </lowerValue>
          <upperValue xsi:type="uml:LiteralUnlimitedNatural"</pre>
xmi:id="_QgMt6SdCEem8L7GnWj5l1Q" value="*">
            <eAnnotations xmi:id="_QgMt6idCEem8L7GnWj5llQ" source="genmymodel">
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value="_m1JvqSc9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
          </upperValue>
        </ownedParameter>
        <ownedParameter xmi:id="_QgMt7CdCEem8L7GnWj5llQ" name="grid"</pre>
type="_QgN8xidCEem8L7GnWj5l1Q">
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            <details xmi:id="_QgMt7idCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Jvqic9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
          <lowerValue xsi:type="uml:LiteralInteger"</pre>
xmi:id="_QgMt7ydCEem8L7GnWj5llQ">
            <eAnnotations xmi:id="_QgMt8CdCEem8L7GnWj5llQ" source="genmymodel">
               <details xmi:id="_QgMt8SdCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Jvqyc9EemVJ-LgVHoDQQ"/>
             </eAnnotations>
          </lowerValue>
          <upperValue xsi:type="uml:LiteralUnlimitedNatural"</pre>
xmi:id="_QgMt8idCEem8L7GnWj5llQ" value="1">
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value="_m1JvrCc9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
          </upperValue>
        </ownedParameter>
      </ownedOperation>
      <ownedOperation xmi:id="_0gMt9SdCEem8L7GnWj51l0" name="hexToColor"</pre>
visibility="public">
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```

```
<details xmi:id="_QgMt-SdCEem8L7GnWj5llQ" key="six" value=""/>
<details xmi:id="_QgMt-idCEem8L7GnWj5llQ" key="character" value=""/>
<details xmi:id="_QgMt-ydCEem8L7GnWj5llQ" key="string" value=""/>
<details xmi:id="_QgMt_CdCEem8L7GnWj5llQ" key="containing" value=""/>
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<details xmi:id="_QgMt_idCEem8L7GnWj5llQ" key="representing" value=""/</pre>
            <details xmi:id="_QgMt_ydCEem8L7GnWj5llQ" key="a" value=""/>
<details xmi:id="_QgMuACdCEem8L7GnWj5llQ" key="color" value=""/>
            <details xmi:id="_QgMuASdCEem8L7GnWj5llQ" key="in" value=""/>
            <details xmi:id="_QgMuAidCEem8L7GnWj5llQ" key="the" value=""/>
            <details xmi:id="_QgMuAydCEem8L7GnWj5llQ" key="rgb" value=""/>
            <details xmi:id="_QgMuBCdCEem8L7GnWj5llQ" key="space" value=""/>
         </eAnnotations>
         <eAnnotations xmi:id="_QgMuBSdCEem8L7GnWj51lQ" source="return">
            <details xmi:id="_QgMuBidCEem8L7GnWj5llQ" key="A" value=""/>
            <details xmi:id="_QgMuBydCEem8L7GnWj5llQ" key="Color" value=""/>
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            <details xmi:id="_QgMuCSdCEem8L7GnWj5llQ" key="with" value=""/>
            <details xmi:id="_QgMuCidCEem8L7GnWj5llQ" key="the" value=""/>
            <details xmi:id="_QgMuCydCEem8L7GnWj5llQ" key="rgb" value=""/>
            <details xmi:id="_QgMuDCdCEem8L7GnWj5llQ" key="value" value=""/>
            <details xmi:id="_QgMuDSdCEem8L7GnWj5llQ" key="of" value=""/>
            <details xmi:id="_QgMuDidCEem8L7GnWj5llQ" key="hex" value=""/>
            <details xmi:id="_QgMuDydCEem8L7GnWj5llQ" key="string" value=""/>
         </eAnnotations>
         <eAnnotations xmi:id="_QgMuECdCEem8L7GnWj5llQ" source="genmymodel">
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value="_m1JvrSc9EemVJ-LgVHoDQQ"/>
         </eAnnotations>
         <ownedComment xmi:id="_QgMuEidCEem8L7GnWj5llQ" body="@paramhex A six</pre>
character string containing hex digits representing acolor in the rgb color
space
@return A Color object with the rgb value of the hex string">
            <eAnnotations xmi:id="_QgMuEydCEem8L7GnWj5llQ" source="genmymodel">
    <details xmi:id="_QgMuFCdCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1JvyCc9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
         </ownedComment>
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type="_QgRoTSdCEem8L7GnWj5llQ" direction="return">
            <eAnnotations xmi:id="_QgMuFidCEem8L7GnWj5llQ" source="genmymodel">
              <details xmi:id="_QgMuFydCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1JvySc9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
            <lowerValue xsi:type="uml:LiteralInteger"</pre>
xmi:id="_QgMuGCdCEem8L7GnWj5l1Q">
              <eAnnotations xmi:id="_QgMuGSdCEem8L7GnWj5llQ" source="genmymodel">
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value="_m1Jvyic9EemVJ-LgVHoDQQ"/>
              </eAnnotations>
            </lowerValue>
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xmi:id="_QgMuGydCEem8L7GnWj5llQ" value="1">
              <eAnnotations xmi:id="_QgMuHCdCEem8L7GnWj5llQ" source="genmymodel">
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value="_m1Jvyyc9EemVJ-LgVHoDQQ"/>
              </eAnnotations>
            </upperValue>
         </ownedParameter>
         <ownedParameter xmi:id="_QgMuHidCEem8L7GnWj5llQ" name="hex">
            <eAnnotations xmi:id="_QgMuHydCEem8L7GnWj5llQ" source="genmymodel">
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value="_m1JvzCc9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
```

```
<type xsi:type="uml:PrimitiveType"
href="pathmap://UML_LIBRARIES/UMLPrimitiveTypes.library.uml#//String"/>
               <lowerValue xsi:type="uml:LiteralInteger"</pre>
xmi:id="_QgMuISdCEem8L7GnWj5llQ">
                  <eAnnotations xmi:id="_QgMuIidCEem8L7GnWj5llQ" source="genmymodel">
                     <details xmi:id="_QgMuIydCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1JvzSc9EemVJ-LgVHoDQQ"/>
                  </eAnnotations>
               </lowerValue>
               <upperValue xsi:type="uml:LiteralUnlimitedNatural"</pre>
xmi:id="_QgMuJCdCEem8L7GnWj5llQ" value="1">
                  <eAnnotations xmi:id="_QgMuJSdCEem8L7GnWj5llQ" source="genmymodel">
                     <details xmi:id="_QgMuJidCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Jvzic9EemVJ-LgVHoDQQ"/>
                  </eAnnotations>
               </upperValue>
            </ownedParameter>
         </ownedOperation>
         <ownedOperation xmi:id="_QgMuJydCEem8L7GnWj51lQ" name="repaint"</pre>
visibility="public">
            <eAnnotations xmi:id="_QgMuKCdCEem8L7GnWj5llQ" source="genmymodel">
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value="_m1Jvzyc9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
            <ownedComment xmi:id="_QgMuKidCEem8L7GnWj51lQ" body="Draw the display</pre>
(cards and messages).">
               <eAnnotations xmi:id="_QgMuKydCEem8L7GnWj5llQ" source="genmymodel">
                  <details xmi:id="_QgMuLCdCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Jv0Cc9EemVJ-LgVHoDQQ"/>
               </eAnnotations>
            </ownedComment>
            <ownedParameter xmi:id="_QgMuLSdCEem8L7GnWj5llQ" direction="return">
               <eAnnotations xmi:id="_QgMuLidCEem8L7GnWj5llQ" source="genmymodel">
                  <details xmi:id="_QgMuLydCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Jv0Sc9EemVJ-LgVHoDQQ"/>
               </eAnnotations>
            </ownedParameter>
         </ownedOperation>
         <ownedOperation xmi:id="_QgMuMCdCEem8L7GnWj51lQ" name="getGrowBy"</pre>
visibility="public">
           <eAnnotations xmi:id="_QgMuMSdCEem8L7GnWj5llQ" source="return">
  <details xmi:id="_QgMuMidCEem8L7GnWj5llQ" key="The" value=""/>
  <details xmi:id="_QgMuMydCEem8L7GnWj5llQ" key="value" value=""/>
  <details xmi:id="_QgMuNCdCEem8L7GnWj5llQ" key="of" value=""/>
  <details xmi:id="_QgMuNSdCEem8L7GnWj5llQ" key="the" value=""/>
  <details xmi:id="_QgMuNidCEem8L7GnWj5llQ" key="grow" value=""/>
  <details xmi:id="_QgMuNydCEem8L7GnWj5llQ" key="by" value=""/></details xmi:id="_QgMuNydCEem8L7GnWj5llQ" key="by" value=""/>
               <details xmi:id="_QgMuOCdCEem8L7GnWj5llQ" key="spinner" value=""/>
            </eAnnotations>
            <eAnnotations xmi:id="_QgMuOSdCEem8L7GnWj5llQ" source="genmymodel">
               <details xmi:id="_QgMuOidCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Jv0ic9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
            <ownedComment xmi:id="_QgMuOydCEem8L7GnWj5llQ" body="@return The value</pre>
of the grow by spinner">
               <eAnnotations xmi:id="_QgMuPCdCEem8L7GnWj51lQ" source="genmymodel">
                  <details xmi:id="_QgMuPSdCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Jv2yc9EemVJ-LgVHoDQQ"/>
               </eAnnotations>
            </ownedComment>
            <ownedParameter xmi:id="_QgMuPidCEem8L7GnWj5llQ" direction="return">
               <eAnnotations xmi:id="_QgMuPydCEem8L7GnWj5llQ" source="genmymodel">
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value="_m1Jv3Cc9EemVJ-LgVHoDQQ"/>
```

```
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href="pathmap://UML_LIBRARIES/UMLPrimitiveTypes.library.uml#//Integer"/>
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xmi:id="_QgMuQSdCEem8L7GnWj5llQ" value="1">
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value="_m1Jv3Sc9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
          </lowerValue>
          <upperValue xsi:type="uml:LiteralUnlimitedNatural"</pre>
xmi:id="_QgMuRCdCEem8L7GnWj5llQ" value="1">
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value="_m1Jv3ic9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
          </upperValue>
        </ownedParameter>
      </ownedOperation>
      <ownedOperation xmi:id="_QgMuRydCEem8L7GnWj5llQ" name="getEdgeKills"</pre>
visibility="public">
        <eAnnotations xmi:id="_QgMuSCdCEem8L7GnWj51lQ" source="return">
          <details xmi:id="_QgMuSSdCEem8L7GnWj5llQ" key="Whether" value=""/>
          <details xmi:id="_QgMuSidCEem8L7GnWj5llQ" key="the" value=""/>
          <details xmi:id="_QgMuSydCEem8L7GnWj5llQ" key="edge" value=""/>
          <details xmi:id="_QgMuTCdCEem8L7GnWj5llQ" key="kills" value=""/>
          <details xmi:id="_QgMuTSdCEem8L7GnWj5llQ" key="checkbox" value=""/>
          <details xmi:id="_QgMuTidCEem8L7GnWj5llQ" key="is" value=""/>
          <details xmi:id="_QgMuTydCEem8L7GnWj51lQ" key="checked" value=""/>
        </eAnnotations>
        <eAnnotations xmi:id="_QgMuUCdCEem8L7GnWj5llQ" source="genmymodel">
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value="_m1Jv3yc9EemVJ-LgVHoDQQ"/>
        </eAnnotations>
        <ownedComment xmi:id="_QgMuUidCEem8L7GnWj5llQ" body="@return Whether the</pre>
edge kills checkbox is checked">
          <eAnnotations xmi:id="_QgMuUydCEem8L7GnWj5llQ" source="genmymodel">
            <details xmi:id="_QgMuVCdCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Jv6Cc9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
        </ownedComment>
        <ownedParameter xmi:id="_QgMuVSdCEem8L7GnWj5llQ" direction="return">
          <eAnnotations xmi:id="_QgMuVidCEem8L7GnWj511Q" source="genmymodel">
            <details xmi:id="_QgMuVydCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Jv6Sc9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
          <type xsi:type="uml:PrimitiveType"
href="pathmap://UML_LIBRARIES/UMLPrimitiveTypes.library.uml#//Boolean"/>
          <lowerValue xsi:type="uml:LiteralInteger"</pre>
xmi:id="_QgMuWCdCEem8L7GnWj5llQ" value="1">
            <eAnnotations xmi:id="_QgMuWSdCEem8L7GnWj5llQ" source="genmymodel">
              <details xmi:id="_QgMuWidCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Jv6ic9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
          </lowerValue>
          <upperValue xsi:type="uml:LiteralUnlimitedNatural"</pre>
xmi:id="_QgMuWydCEem8L7GnWj5llQ" value="1">
            <eAnnotations xmi:id="_QgMuXCdCEem8L7GnWj5llQ" source="genmymodel">
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value="_m1Jv6yc9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
          </upperValue>
        </ownedParameter>
      </ownedOperation>
```

```
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visibility="private">
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           <details xmi:id="_QqMuYCdCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Jv7Cc9EemVJ-LgVHoDQ0"/>
        </eAnnotations>
        <ownedComment xmi:id="_QgMuYSdCEem8L7GnWj51lQ" body="Initialize the</pre>
display.">
          <eAnnotations xmi:id="_QgMuYidCEem8L7GnWj5llQ" source="genmymodel">
             <details xmi:id="_QgMuYydCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Jv7Sc9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
        </ownedComment>
        <ownedParameter xmi:id="_QgMuZCdCEem8L7GnWj5llQ" direction="return">
          <eAnnotations xmi:id="_QgMuZSdCEem8L7GnWj5llQ" source="genmymodel">
             <details xmi:id="_QgMuZidCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Jv7ic9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
        </ownedParameter>
      </ownedOperation>
      <ownedOperation xmi:id="_QgMuZydCEem8L7GnWj51lQ" name="signalError"</pre>
visibility="private">
        <eAnnotations xmi:id="_QgMuaCdCEem8L7GnWj5llQ" source="genmymodel">
           <details xmi:id="_QgMuaSdCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Jv7yc9EemVJ-LgVHoDQQ"/>
        </eAnnotations>
        <ownedComment xmi:id=" OgMuaidCEem8L7GnWj5ll0" body="Beeps">
           <eAnnotations xmi:id="_QgMuaydCEem8L7GnWj5llQ" source="genmymodel">
             <details xmi:id="_QgMubCdCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Jv8Cc9EemVJ-LqVHoDQQ"/>
          </eAnnotations>
        </ownedComment>
        <ownedParameter xmi:id="_QgMubSdCEem8L7GnWj5llQ" direction="return">
           <eAnnotations xmi:id="_QgMubidCEem8L7GnWj5llQ" source="genmymodel">
             <details xmi:id="_QgMubydCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Jv8Sc9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
        </ownedParameter>
      </ownedOperation>
      <ownedOperation xmi:id="_QgMucCdCEem8L7GnWj5llQ" name="actionPerformed"</pre>
visibility="public">
        <eAnnotations xmi:id="_QgMucSdCEem8L7GnWj5llQ" source="genmymodel">
        <details xmi:id="_QgMucidCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Jv8ic9EemVJ-LgVHoDQQ"/>
        </eAnnotations>
        <ownedParameter xmi:id="_QgMucydCEem8L7GnWj5llQ" direction="return">
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value="_m1Jv8yc9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
        </ownedParameter>
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type="_QgRoVSdCEem8L7GnWj5llQ">
          <eAnnotations xmi:id="_QgMudydCEem8L7GnWj5llQ" source="genmymodel">
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value="_m1Jv9Cc9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
           <lowerValue xsi:type="uml:LiteralInteger"</pre>
xmi:id="_QgMueSdCEem8L7GnWj51lQ">
             <eAnnotations xmi:id="_QgMueidCEem8L7GnWj5llQ" source="genmymodel">
               <details xmi:id="_QgMueydCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Jv9Sc9EemVJ-LgVHoDQQ"/>
             </eAnnotations>
          </lowerValue>
```

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<upperValue xsi:type="uml:LiteralUnlimitedNatural"</pre>
xmi:id="_QgMufCdCEem8L7GnWj5llQ" value="1">
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value="_m1Jv9ic9EemVJ-LgVHoDQQ"/>
             </eAnnotations>
          </upperValue>
        </ownedParameter>
      </ownedOperation>
      <ownedOperation xmi:id="_QgMufydCEem8L7GnWj5llQ" name="updateControls"</pre>
visibility="public">
        <eAnnotations xmi:id="_QgMugCdCEem8L7GnWj5llQ" source="genmymodel">
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value="_m1Jv9yc9EemVJ-LgVHoDQQ"/>
        </eAnnotations>
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  <eAnnotations xmi:id="_QgMugydCEem8L7GnWj5llQ" source="genmymodel">
             <details xmi:id="_QgMuhCdCEem8L7GnWj5llQ" key="uuid" value="_m1Jv-</pre>
Cc9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
        </ownedComment>
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contract="_QgRoUSdCEem8L7GnWj5llQ">
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        <details xmi:id="_QgN8FidCEem8L7GnWj5llQ" key="Barber" value=""/>
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value="_m1My8Cc9EemVJ-LgVHoDQQ"/>
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value="_m1My8Sc9EemVJ-LgVHoDQQ"/>
        </eAnnotations>
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href="pathmap://UML_LIBRARIES/UMLPrimitiveTypes.library.uml#//Boolean"/>
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value="_m1My8ic9EemVJ-LgVHoDQQ"/>
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value="_m1My8yc9EemVJ-LgVHoDQQ"/>
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value of which state the game is currently in: pre, during, or post">
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value to true and the others to false">
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         </eAnnotations>
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horizontal number of squares
@paramlength The vertical number of
squares
@paramstartX The x-coordinate of the snake's starting
position
@paramstartY The y-coordinate of the snake's starting position">
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value="_m1NaIyc9EemVJ-LgVHoDQQ"/>
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         </ownedComment>
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value="_m1NaJCc9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
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value="_m1NaJic9EemVJ-LgVHoDQQ"/>
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value="_m1NaKyc9EemVJ-LgVHoDQQ"/>
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<details xmi:id="_QgN-MCdCEem8L7GnWj5llQ" key="initial" value=""/>
<details xmi:id="_QgN-MSdCEem8L7GnWj5llQ" key="position" value=""/>
<details xmi:id="_QgN-MidCEem8L7GnWj5llQ" key="of" value=""/>
<details xmi:id="_QgN-MydCEem8L7GnWj5llQ" key="the" value=""/>
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position of the snake">
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value="_m10Aqic9EemVJ-LgVHoDQQ"/>
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             <details xmi:id="_QgN-RydCEem8L7GnWj5llQ" key="number" value=""/>
             <details xmi:id="_QgN-SCdCEem8L7GnWj51lQ" key="of" value=""/>
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number of frames that should be shown per update cycle">
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value="_m10Auyc9EemVJ-LgVHoDQQ"/>
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value="_m10AvSc9EemVJ-LgVHoDQQ"/>
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value="_m10Avic9EemVJ-LgVHoDQQ"/>
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          <details xmi:id="_QgN-ZidCEem8L7GnWj5llQ" key="number" value=""/>
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          <details xmi:id="_QgN-aCdCEem8L7GnWj5llQ" key="frames" value=""/>
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          <details xmi:id="_QgN-aydCEem8L7GnWj5llQ" key="be" value=""/>
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value="_m10Avyc9EemVJ-LgVHoDQQ"/>
        </eAnnotations>
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number of frames that should be shown per update cycle
@paramlevel The
difficulty level to change">
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value="_m10A0yc9EemVJ-LgVHoDQQ"/>
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value="_m10A1yc9EemVJ-LgVHoDQQ"/>
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           <details xmi:id="_QgN-lsdCEem8L7GnWj5llQ" key="of" value=""/> <details xmi:id="_QgN-lidCEem8L7GnWj5llQ" key="the" value=""/> 
           <details xmi:id="_QgN-lydCEem8L7GnWj5llQ" key="snake's" value=""/>
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           <details xmi:id="_QgN-mSdCEem8L7GnWj5llQ" key="position" value=""/>
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         <eAnnotations xmi:id="_QgN-midCEem8L7GnWj5llQ" source="param">
           <details xmi:id="_QgN-mydCEem8L7GnWj5llQ" key="y" value=""/>
<details xmi:id="_QgN-nCdCEem8L7GnWj5llQ" key="The" value=""/>
           <details xmi:id="_QgN-nSdCEem8L7GnWj5llQ" key="y-coordinate" value=""/</pre>
           <details xmi:id="_QgN-nidCEem8L7GnWj5llQ" key="of" value=""/>
<details xmi:id="_QgN-nydCEem8L7GnWj5llQ" key="the" value=""/>
           <details xmi:id="_QgN-oCdCEem8L7GnWj5llQ" key="snake's" value=""/>
           <details xmi:id="_QgN-oSdCEem8L7GnWj5llQ" key="new" value=""/>
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coordinate of the snake's new position
@paramy The y-coordinate of the
snake's new position">
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value="_m10A7ic9EemVJ-LgVHoDQQ"/>
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value="_m10A7yc9EemVJ-LgVHoDQQ"/>
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value="_m10A8Cc9EemVJ-LgVHoDQQ"/>
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value="_m10A8Sc9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
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value="_m10A8ic9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
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        </ownedParameter>
        <ownedParameter xmi:id="_Qg0iWidCEem8L7GnWj5llQ" name="y">
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value="_m10A8yc9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
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value="_m10A9Cc9EemVJ-LgVHoDQQ"/>
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        </ownedParameter>
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<details xmi:id="_Qg0iZidCEem8L7GnWj5llQ" key="The" value=""/>
             <details xmi:id="_QgoiZydCEem8L7GnWj51lQ" key="object" value=""/>
<details xmi:id="_QgoiaCdCEem8L7GnWj51lQ" key="to" value=""/>
<details xmi:id="_QgoiaSdCEem8L7GnWj51lQ" key="copy" value=""/>
<details xmi:id="_QgoiaidCEem8L7GnWj51lQ" key="copy" value=""/>
<details xmi:id="_QgoiaidCEem8L7GnWj51lQ" key="(most" value=""/>
<details xmi:id="_QgoiaydCEem8L7GnWj51lQ" key="of)" value=""/>
<details xmi:id="_QgoibCdCEem8L7GnWj51lQ" key="the" value=""/>
<details xmi:id="_QgoibCdCEem8L7GnWj51lQ" key="the" value=""/>
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value="_m10A9ic9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
          <ownedComment xmi:id="_QgOicSdCEem8L7GnWj51lQ" body="@paramgrid The grid</pre>
object to copy (most of) the values from">
             <eAnnotations xmi:id="_QgOicidCEem8L7GnWj5llQ" source="genmymodel">
                <details xmi:id="_Qg0icydCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m10BAic9EemVJ-LgVHoDQQ"/>
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          </ownedComment>
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value="_m10BAyc9EemVJ-LgVHoDQQ"/>
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          </ownedParameter>
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type="_QgN8xidCEem8L7GnWj5llQ">
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value="_m10BBCc9EemVJ-LgVHoDQQ"/>
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value="_m10BBSc9EemVJ-LgVHoDQQ"/>
                </eAnnotations>
             </lowerValue>
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value="_m10BBic9EemVJ-LgVHoDQQ"/>
                </eAnnotations>
             </upperValue>
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        </ownedOperation>
        <ownedOperation xmi:id="_Qg0igCdCEem8L7GnWj5llQ" name="getInitialLength"</pre>
visibility="public">
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             <details xmi:id="_QgOigydCEem8L7GnWj5llQ" key="initial" value=""/>
             <details xmi:id="_Qg0ihCdCEem8L7GnWj5llQ" key="length" value=""/>
             <details xmi:id="_QgOihSdCEem8L7GnWj51lQ" key="of" value=""/>
<details xmi:id="_QgOihidCEem8L7GnWj51lQ" key="the" value=""/>
             <details xmi:id="_QgOihydCEem8L7GnWj5llQ" key="snake" value=""/>
          </eAnnotations>
          <eAnnotations xmi:id="_QgOiiCdCEem8L7GnWj5llQ" source="genmymodel">
             <details xmi:id="_Qg0iiSdCEem8L7GnWj5llQ" key="uuid"</pre>
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value="_m10BByc9EemVJ-LgVHoDQQ"/>
        </eAnnotations>
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length of the snake">
           <eAnnotations xmi:id="_QgOiiydCEem8L7GnWj5llQ" source="genmymodel">
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value="_m10BDyc9EemVJ-LgVHoDQQ"/>
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value="_m10BESc9EemVJ-LgVHoDQQ"/>
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value="_m10BEic9EemVJ-LgVHoDQQ"/>
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           </upperValue>
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           <details xmi:id="_QgOinCdCEem8L7GnWj51lQ" key="the" value=""/>
<details xmi:id="_QgOinSdCEem8L7GnWj51lQ" key="snake's" value=""/>
           <details xmi:id="_Qg0inidCEem8L7GnWj5llQ" key="size" value=""/>
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        <eAnnotations xmi:id="_QgOinydCEem8L7GnWj51lQ" source="genmymodel"> <details xmi:id="_QgOioCdCEem8L7GnWj51lQ" key="uuid"
value="_m10BEyc9EemVJ-LgVHoDQQ"/>
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increment value for the snake's size">
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value="_m10BHSc9EemVJ-LgVHoDQQ"/>
           </eAnnotations>
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xmi:id="_Qg0ipydCEem8L7GnWj5llQ" value="1">
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value="_m10BHic9EemVJ-LgVHoDQQ"/>
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xmi:id="_QgOiqidCEem8L7GnWj5llQ" value="1">
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value="_m10BHyc9EemVJ-LgVHoDQQ"/>
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          </upperValue>
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visibility="public">
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          <details xmi:id="_QgOisydCEem8L7GnWj5llQ" key="int" value=""/>
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          <details xmi:id="_Qg0itSdCEem8L7GnWj5llQ" key="remove" value=""/>
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          <details xmi:id="_Qg0iuSdCEem8L7GnWj5llQ" key="in" value=""/>
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          <details xmi:id="_Qg0iuydCEem8L7GnWj5llQ" key="playArea" value=""/>
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        <eAnnotations xmi:id="_QgOivCdCEem8L7GnWj5llQ" source="genmymodel">
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value="_m10BICc9EemVJ-LgVHoDQQ"/>
        </eAnnotations>
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of int to remove and set to zero in the playArea">
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value="_m10BLyc9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
        </ownedComment>
        <ownedParameter xmi:id="_Qg0iwSdCEem8L7GnWj5llQ" direction="return">
  <eAnnotations xmi:id="_Qg0iwidCEem8L7GnWj5llQ" source="genmymodel">
             <details xmi:id="_QgOiwydCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m10BMCc9EemVJ-LgVHoDQQ"/>
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value="_m10BMSc9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
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href="pathmap://UML_LIBRARIES/UMLPrimitiveTypes.library.uml#//Integer"/>
           <lowerValue xsi:type="uml:LiteralInteger"</pre>
xmi:id="_Qg0ixydCEem8L7GnWj5llQ" value="1">
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value="_m10BMic9EemVJ-LgVHoDQQ"/>
             </eAnnotations>
          </lowerValue>
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xmi:id="_Qg0iyidCEem8L7GnWj5llQ" value="1">
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value="_m10BMyc9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
          </upperValue>
        </ownedParameter>
      </ownedOperation>
      <ownedOperation xmi:id="_QgOizSdCEem8L7GnWj5llQ"</pre>
name="findUnmatchedPortal" visibility="public">
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          <details xmi:id="_Qg0i0CdCEem8L7GnWj5llQ" key="coordinates" value=""/>
          <details xmi:id="_Qg0i0SdCEem8L7GnWj5llQ" key="of" value=""/>
          <details xmi:id="_Qg0i0idCEem8L7GnWj5llQ" key="the" value=""/>
          <details xmi:id="_QgOiOydCEem8L7GnWj5llQ" key="first" value=""/>
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          <details xmi:id="_Qg0i1ydCEem8L7GnWj5llQ" key="pair" value=""/>
          <details xmi:id="_QgOi2CdCEem8L7GnWj51lQ" key="reading" value=""/>
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          <details xmi:id="_Qg0i2idCEem8L7GnWj5llQ" key="to" value=""/>
          <details xmi:id="_QgOi2ydCEem8L7GnWj5llQ" key="right" value=""/>
          <details xmi:id="_Qg0i3CdCEem8L7GnWj5llQ" key="top" value=""/>
          <details xmi:id="_Qg0i3SdCEem8L7GnWj5llQ" key="down" value=""/>
          <details xmi:id="_Qg0i3idCEem8L7GnWj5llQ" key="on" value=""/>
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value="_m10BNCc9EemVJ-LgVHoDQQ"/>
        </eAnnotations>
        <ownedComment xmi:id="_QgOi4idCEem8L7GnWj51lQ" body="@return The</pre>
coordinates of the first portal without a pair reading leftto right top down on
the grid">
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value="_m10BXSc9EemVJ-LgVHoDQQ"/>
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value=""/>
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               <details xmi:id="_Qg0jEidCEem8L7GnWj5llQ" key="ints" value=""/>
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two-dimensional list of ints describing various snakeobjects">
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the walls kill the snake or not">
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number frames that pass before another update cycle">
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>
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value="_m1Qc7ic9EemVJ-LgVHoDQQ"/>
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value="_m1Qc7yc9EemVJ-LgVHoDQQ"/>
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value="_m1Qc8Cc9EemVJ-LgVHoDQQ"/>
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value="_m1Qc9yc9EemVJ-LgVHoDQQ"/>
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value="_m1Qc_Cc9EemVJ-LgVHoDQQ"/>
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value=""/>
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@return">
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value="_m1QdCic9EemVJ-LgVHoDQQ"/>
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value="_m1QdCyc9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
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value="_m1QdFCc9EemVJ-LgVHoDQQ"/>
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value="_m1QdFSc9EemVJ-LgVHoDQQ"/>
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value="_m1QdFic9EemVJ-LgVHoDQQ"/>
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value="_m1QdHSc9EemVJ-LgVHoDQQ"/>
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value="_m1QdHic9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
          </upperValue>
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      </ownedOperation>
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value="_m1REVic9EemVJ-LgVHoDQQ"/>
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          </eAnnotations>
        </upperValue>
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value="_m1REWCc9EemVJ-LgVHoDQQ"/>
        </eAnnotations>
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value="_m1REWSc9EemVJ-LgVHoDQQ"/>
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        <upperValue xsi:type="uml:LiteralUnlimitedNatural"</pre>
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value="_m1REWic9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
        </upperValue>
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value="_m1REWyc9EemVJ-LgVHoDQQ"/>
        </eAnnotations>
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xmi:id="_QgPzKidCEem8L7GnWj5llQ">
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value="_m1REXCc9EemVJ-LgVHoDQQ"/>
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         </lowerValue>
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value="_m1REXSc9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
         </upperValue>
       </ownedAttribute>
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visibility="private" type="_QgRorCdCEem8L7GnWj5llQ">
         <eAnnotations xmi:id="_QgPzMSdCEem8L7GnWj5llQ" source="genmymodel">
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value="_m1REXic9EemVJ-LgVHoDQQ"/>
         </eAnnotations>
         <lowerValue xsi:type="uml:LiteralInteger"</pre>
xmi:id="_QgPzMydCEem8L7GnWj5llQ">
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              <details xmi:id="_QgPzNSdCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1REXyc9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
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value="_m1REYCc9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
         </upperValue>
       </ownedAttribute>
       <ownedOperation xmi:id="_QgPzOSdCEem8L7GnWj5llQ" name="MainMenu"</pre>
visibility="public">
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value="_m1REYSc9EemVJ-LgVHoDQQ"/>
         </eAnnotations>
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ImageView objects for the 4 menu screens">
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              <details xmi:id="_QgPzPidCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1REYic9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
         </ownedComment>
       </ownedOperation>
       <ownedOperation xmi:id="_QgPzPydCEem8L7GnWj5llQ" name="getMusic"</pre>
visibility="public">
         <eAnnotations xmi:id="_QgPzQCdCEem8L7GnWj5llQ" source="return">
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<details xmi:id="_QgPzQidCEem8L7GnWj51lQ" key="the" value=""/>
<details xmi:id="_QgPzQydCEem8L7GnWj51lQ" key="music" value=""/>
<details xmi:id="_QgPzRCdCEem8L7GnWj51lQ" key="icon" value=""/>
<details xmi:id="_QgPzRSdCEem8L7GnWj51lQ" key="is" value=""/>
           <details xmi:id="_QgPzRidCEem8L7GnWj51lQ" key="on" value=""/>
<details xmi:id="_QgPzRydCEem8L7GnWj51lQ" key="(true)" value=""/>
<details xmi:id="_QgPzSCdCEem8L7GnWj51lQ" key="or" value=""/>
            <details xmi:id="_QgPzSSdCEem8L7GnWj5llQ" key="off" value=""/>
            <details xmi:id="_QgPzSidCEem8L7GnWj5llQ" key="(false)" value=""/>
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value="_m1REYyc9EemVJ-LgVHoDQQ"/>
         </eAnnotations>
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music icon is on (true) or off (false)">
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value="_m1REbyc9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
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          <ownedParameter xmi:id="_QgPzUCdCEem8L7GnWj5llQ" direction="return">
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value="_m1REcCc9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
            <type xsi:type="uml:PrimitiveType"
href="pathmap://UML_LIBRARIES/UMLPrimitiveTypes.library.uml#//Boolean"/>
            <lowerValue xsi:type="uml:LiteralInteger"</pre>
xmi:id="_QgPzUydCEem8L7GnWj5llQ" value="1">
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value="_m1REcSc9EemVJ-LgVHoDQQ"/>
               </eAnnotations>
            </lowerValue>
            <upperValue xsi:type="uml:LiteralUnlimitedNatural"</pre>
xmi:id="_QgPzVidCEem8L7GnWj5llQ" value="1">
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value="_m1REcic9EemVJ-LgVHoDQ0"/>
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            </upperValue>
          </ownedParameter>
       </ownedOperation>
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visibility="public">
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            <details xmi:id="_QgPzXCdCEem8L7GnWj5llQ" key="the" value=""/>
            <details xmi:id="_QgPzXCdCEem8L7GnWj51lQ" key="the" value=""/>
<details xmi:id="_QgPzXSdCEem8L7GnWj51lQ" key="SFX" value=""/>
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<details xmi:id="_QgPzXydCEem8L7GnWj51lQ" key="is" value=""/>
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<details xmi:id="_QgPzYSdCEem8L7GnWj51lQ" key="(true)" value=""/>
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<details xmi:id="_QgPzYydCEem8L7GnWj51lQ" key="off" value=""/>
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<details xmi:id="_QgPzYydCEem8L7GnWj51lQ" key="off" value=""/>
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value="_m1REcyc9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
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            </eAnnotations>
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            </eAnnotations>
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          <details xmi:id="_QgPzdydCEem8L7GnWj5llQ" key="object" value=""/>
          <details xmi:id="_QgPzeCdCEem8L7GnWj5llQ" key="currently" value=""/>
          <details xmi:id="_QgPzeSdCEem8L7GnWj5llQ" key="in" value=""/>
          <details xmi:id="_QgQXgCdCEem8L7GnWj5llQ" key="use" value=""/>
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        <eAnnotations xmi:id="_QgQXgSdCEem8L7GnWj5llQ" source="genmymodel">
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ImageView object currently in use">
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value="_m1REjic9EemVJ-LgVHoDQQ"/>
             </eAnnotations>
          </upperValue>
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value="_m1REjyc9EemVJ-LgVHoDQQ"/>
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or off">
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value=" m1REkCc9EemVJ-LqVHoD00"/>
           </eAnnotations>
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        <ownedParameter xmi:id="_QgQXlSdCEem8L7GnWj5llQ" direction="return">
  <eAnnotations xmi:id="_QgQXlidCEem8L7GnWj5llQ" source="genmymodel">
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value="_m1REkSc9EemVJ-LgVHoDQQ"/>
           </eAnnotations>
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      </ownedOperation>
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visibility="public">
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        </eAnnotations>
        <ownedComment xmi:id="_QgQXmydCEem8L7GnWj51lQ" body="Sets the SFX var to</pre>
false and chooses the right menu image based onwhether or not the music is on or
off">
           <eAnnotations xmi:id="_QqQXnCdCEem8L7GnWj51l0" source="genmymodel">
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value=" m1REkyc9EemVJ-LqVHoD00"/>
           </eAnnotations>
        </ownedComment>
        <ownedParameter xmi:id="_QgQXnidCEem8L7GnWj5llQ" direction="return">
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             <details xmi:id="_QgQXoCdCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1RElCc9EemVJ-LgVHoDQQ"/>
           </eAnnotations>
        </ownedParameter>
      </ownedOperation>
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visibility="public">
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value="_m1RElSc9EemVJ-LgVHoDQQ"/>
        </eAnnotations>
         <ownedComment xmi:id="_QgQXpCdCEem8L7GnWj5llQ" body="Sets the music var</pre>
to true and chooses the right menu image based onwhether or not the SFX is on or
off">
           <eAnnotations xmi:id="_QgQXpSdCEem8L7GnWj5llQ" source="genmymodel">
             <details xmi:id="_QgQXpidCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1RElic9EemVJ-LgVHoDQQ"/>
           </eAnnotations>
        </ownedComment>
        <ownedParameter xmi:id="_QgQXpydCEem8L7GnWj5llQ" direction="return">
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value="_m1RElyc9EemVJ-LgVHoDQQ"/>
           </eAnnotations>
         </ownedParameter>
      </ownedOperation>
      <ownedOperation xmi:id="_QqQXqidCEem8L7GnWj51lQ" name="turnOnSFX"</pre>
visibility="public">
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value="_m1RrACc9EemVJ-LgVHoDQQ"/>
        </eAnnotations>
         <ownedComment xmi:id="_QgQXrSdCEem8L7GnWj5llQ" body="Sets the SFX var to</pre>
true and chooses the right menu image based onwhether or not the music is on or
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to false and chooses the right menu image based onwhether or not the SFX is on

```
off">
          <eAnnotations xmi:id="_QgQXridCEem8L7GnWj51lQ" source="genmymodel">
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value="_m1RrASc9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
        </ownedComment>
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value="_m1RrAic9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
        </ownedParameter>
      </ownedOperation>
    </packagedElement>
    <packagedElement xsi:type="uml:Class" xmi:id="_QgQXsydCEem8L7GnWj51lQ"</pre>
name="MenuManager">
      <eAnnotations xmi:id="_QgQXtCdCEem8L7GnWj51lQ" source="author">
        <details xmi:id="_QgQXtSdCEem8L7GnWj51lQ" key="Timothy" value=""/>
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value="_m1RrAyc9EemVJ-LgVHoDQQ"/>
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value="_m1RrBic9EemVJ-LgVHoDQQ"/>
        </eAnnotations>
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      <ownedAttribute xmi:id="_QgQXuydCEem8L7GnWj5llQ" name="menuNames"</pre>
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@pa
ramyPos
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@paramaddFilename
@paramxPos&
#xA;@paramyPos
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            </eAnnotations>
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      </ownedOperation>
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        </eAnnotations>
        <eAnnotations xmi:id="_QgRnPidCEem8L7GnWj51lQ" source="genmymodel">
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value="_m1UuXSc9EemVJ-LgVHoDQQ"/>
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new vertical size of the grid">
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value="_m1UuZic9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
        </ownedComment>
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value="_m1UuZyc9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
        </ownedParameter>
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value="_m1UuaCc9EemVJ-LgVHoDQQ"/>
          </eAnnotations>
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value="_m1UuaSc9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
          </lowerValue>
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value="_m1Uuaic9EemVJ-LgVHoDQQ"/>
            </eAnnotations>
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</upperValue>
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      </ownedOperation>
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visibility="package">
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           <details xmi:id="_QgRnVCdCEem8L7GnWj5llQ" key="it's" value=""/>
           <details xmi:id="_QgRnVSdCEem8L7GnWj5llQ" key="native" value=""/>
           <details xmi:id="_QgRnVidCEem8L7GnWj5llQ" key="int[][]" value=""/>
           <details xmi:id="_QgRnVydCEem8L7GnWj5llQ" key="type" value=""/>
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value="_m1Uuayc9EemVJ-LgVHoDQQ"/>
        </eAnnotations>
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it's native int[][] type">
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value="_m1UudCc9EemVJ-LgVHoDQQ"/>
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           </eAnnotations>
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value="_m1Uudic9EemVJ-LgVHoDQQ"/>
             </eAnnotations>
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value="_m1Uudyc9EemVJ-LgVHoDQQ"/>
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<details xmi:id="_QgRnaSdCEem8L7GnWj5llQ" key="int" value=""/>
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<details xmi:id="_QgRnbCdCEem8L7GnWj5llQ" key="grid" value=""/>
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           <details xmi:id="_QgRnbydCEem8L7GnWj51lQ" key="yPos)." value=""/>
<details xmi:id="_QgRncCdCEem8L7GnWj51lQ" key="If" value=""/>
           <details xmi:id="_QgRncSdCEem8L7GnWj5llQ" key="xPos" value=""/>
           <details xmi:id="_QgRncidCEem8L7GnWj5llQ" key="or" value=""/>
<details xmi:id="_QgRncydCEem8L7GnWj5llQ" key="yPos" value=""/>
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```

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<details xmi:id="_QgRndSdCEem8L7GnWj51lQ" key="out" value=""/>
<details xmi:id="_QgRndidCEem8L7GnWj51lQ" key="of" value=""/>
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<details xmi:id="_QgRneCdCEem8L7GnWj51lQ" key="returns" value=""/>
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         </eAnnotations>
         <eAnnotations xmi:id="_QgRneidCEem8L7GnWj5llQ" source="genmymodel">
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value="_m1UueCc9EemVJ-LgVHoDQQ"/>
         </eAnnotations>
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stored in the grid at (xPos, yPos). If xPos or yPos isout of bounds, returns -
1">
           <eAnnotations xmi:id="_QgRnfSdCEem8L7GnWj5llQ" source="genmymodel">
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value="_m1UujSc9EemVJ-LgVHoDQQ"/>
           </eAnnotations>
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value="_m1Uujic9EemVJ-LgVHoDQQ"/>
             </eAnnotations>
           </lowerValue>
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xmi:id="_QgRnhSdCEem8L7GnWj5llQ" value="1">
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value="_m1Uujyc9EemVJ-LgVHoDQQ"/>
             </eAnnotations>
           </upperValue>
         </ownedParameter>
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value="_m1UukCc9EemVJ-LgVHoDQQ"/>
           </eAnnotations>
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href="pathmap://UML_LIBRARIES/UMLPrimitiveTypes.library.uml#//Integer"/>
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value="_m1UukSc9EemVJ-LgVHoDQQ"/>
             </eAnnotations>
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value="_m1Uukic9EemVJ-LgVHoDQQ"/>
             </eAnnotations>
           </upperValue>
         </ownedParameter>
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             <lowerValue xsi:type="uml:LiteralInteger"</pre>
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value="_m1UulCc9EemVJ-LgVHoDQQ"/>
               </eAnnotations>
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value="_m1UulSc9EemVJ-LgVHoDQQ"/>
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            </upperValue>
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             <details xmi:id="_QgRnnSdCEem8L7GnWj5llQ" key="number" value=""/>
             <details xmi:id="_QgRnnidCEem8L7GnWj5llQ" key="of" value=""/>
            <details xmi:id="_QgRnnydCEem8L7GnWj5llQ" key="occupied" value=""/>
            <details xmi:id="_QgRnoCdCEem8L7GnWj5llQ" key="spaces" value=""/>
            <details xmi:id="_QgRnoSdCEem8L7GnWj5llQ" key="matching" value=""/>
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<details xmi:id="_QgRnpidCEem8L7GnWj51lQ" key="y)" value=""/>
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<details xmi:id="_QgRnqSdCEem8L7GnWj5llQ" key="the" value=""/>
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<details xmi:id="_QgRnvSdCEem8L7GnWj51lQ" key="matching" value=""/>
            <details xmi:id="_QgRnvidCEem8L7GnWj5llQ" key="will" value=""/>
<details xmi:id="_QgRnvydCEem8L7GnWj5llQ" key="be" value=""/>
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<details xmi:id="_QgRnwydCEem8L7GnWj5llQ" key="the" value=""/>
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<details xmi:id="_QgRnxSdCEem8L7GnWj51lQ" key="of" value=""/>
<details xmi:id="_QgRnxidCEem8L7GnWj51lQ" key="spaces" value=""/>
           <details xmi:id="_QgRnxydCEem8L7GnWj5llQ" key="out" value=""/>
<details xmi:id="_QgRnyCdCEem8L7GnWj5llQ" key="from" value=""/>
           <details xmi:id="_QgRnySdCEem8L7GnWj5llQ" key="initial," value=""/>
           <details xmi:id="_QgRnyidCEem8L7GnWj5llQ" key="e.g." value=""/>
           <details xmi:id="_QgRnyydCEem8L7GnWj5llQ" key="a" value=""/>
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           <details xmi:id="_QgRn0ydCEem8L7GnWj51lQ" key="excluding" value=""/>
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value=" m1Uulic9EemVJ-LqVHoD00"/>
         </eAnnotations>
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of occupied spaces matching param type near (x, y)
@paramx the x component
of the chosen space
@paramy the y component of the chosen
space
@paramtype the spaces which contain an int matching type will be
counted
@paramradius the number of spaces out from the initial, e.g. a
radius ofone will count squares in a 3x3 box excluding the middle square">
           <eAnnotations xmi:id="_QgRn2SdCEem8L7GnWj5l1Q" source="genmymodel">
             <details xmi:id="_QgRn2idCEem8L7GnWj5llQ" key="uuid"</pre>
value="_m1Uu0ic9EemVJ-LgVHoDQQ"/>
           </eAnnotations>
         </ownedComment>
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value="_m1Uu0yc9EemVJ-LgVHoDQQ"/>
           </eAnnotations>
           <type xsi:type="uml:PrimitiveType"
href="pathmap://UML_LIBRARIES/UMLPrimitiveTypes.library.uml#//Integer"/>
           <lowerValue xsi:type="uml:LiteralInteger"</pre>
xmi:id="_QgRn3idCEem8L7GnWj5llQ" value="1">
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value="_m1Uu1Cc9EemVJ-LgVHoDQQ"/>
             </eAnnotations>
           </lowerValue>
           <upperValue xsi:type="uml:LiteralUnlimitedNatural"</pre>
xmi:id="_QgRn4SdCEem8L7GnWj5llQ" value="1">
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value="_m1Uu1Sc9EemVJ-LgVHoDQQ"/>
             </eAnnotations>
           </upperValue>
         </ownedParameter>
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@return same as
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