**Mini-Control 1**

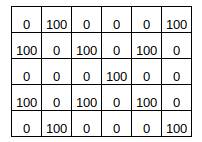
**Recuperación de Información Multimedia**

Autor: Ismael Fernández

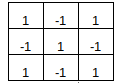
Fecha: Abril-2023

**Pregunta 1:**

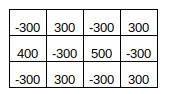
Imagen A:



Kernel K:

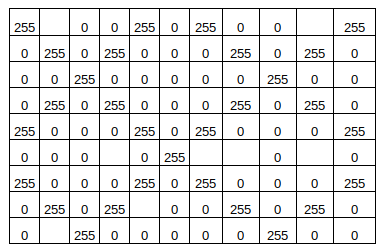


Resultado de la convolución:

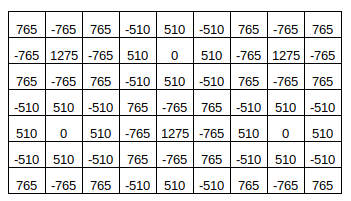


**Pregunta 2:**

Imagen **B**:



Resultado de la convolución con Kernel K:



Resultado aplicando función Umbral:

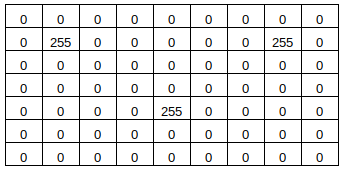
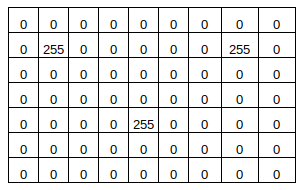


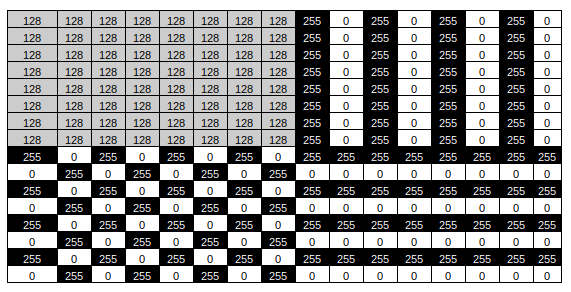
Imagen B con filtro de mediana:



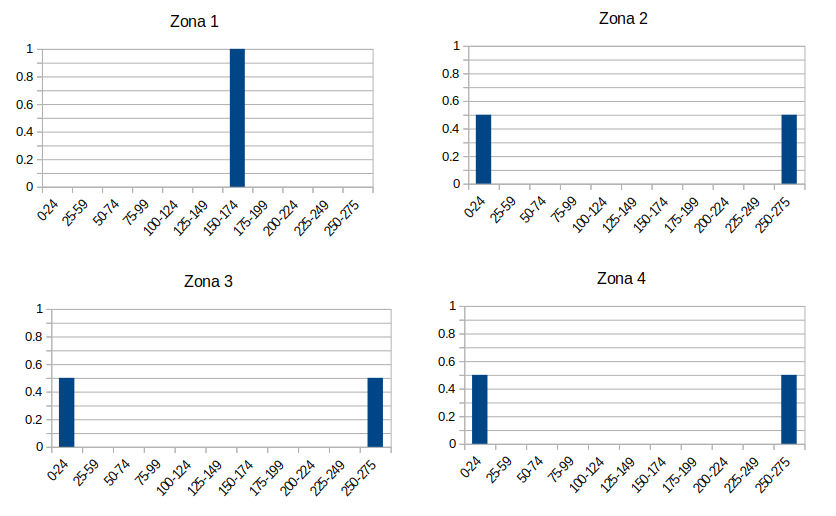
Observaciones: ….

**Pregunta 3:**

Imagen con valores de escala de grises (8 bits):

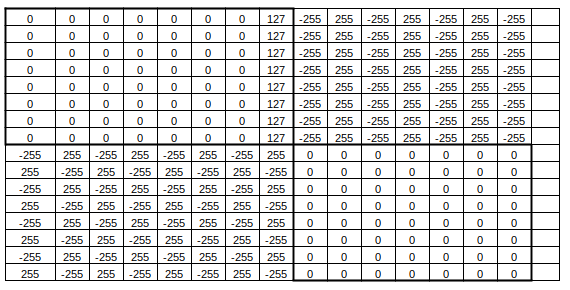


Histograma de escala de grises en cada zona (2x2):

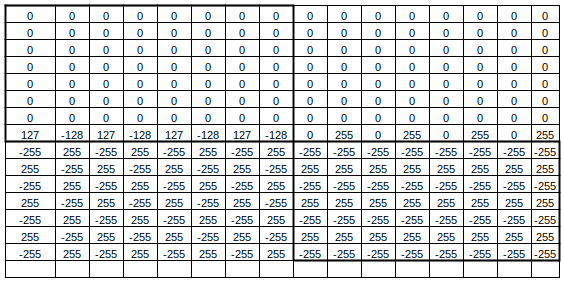


**Pregunta 5:**

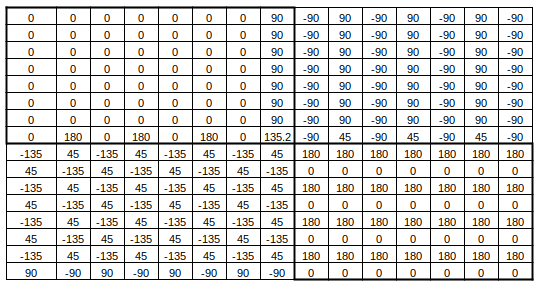
Gradiente en eje x:



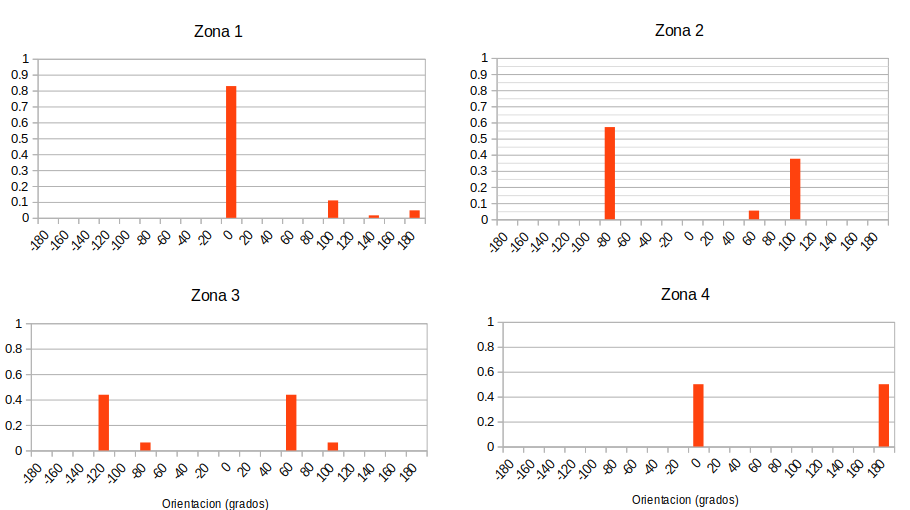
Gradiente en eje y:



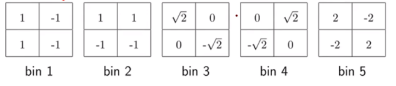
Orientación (ángulo en grados)

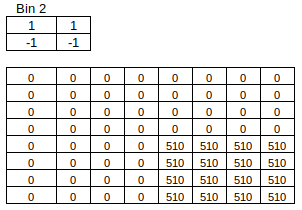
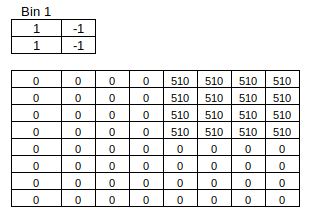


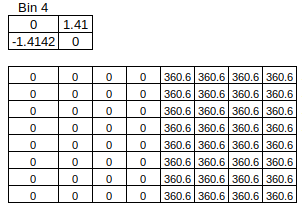
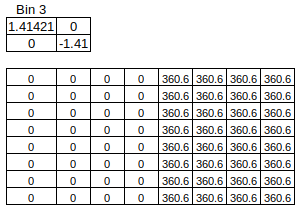
Histograma de orientaciones por zona (2x2):

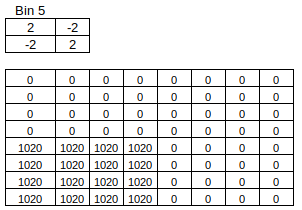


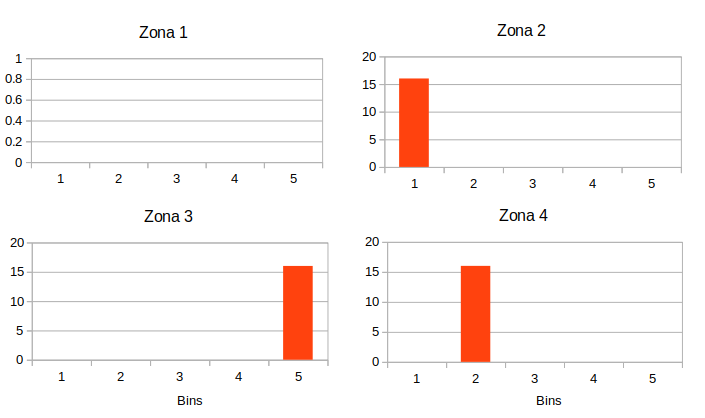
**Pregunta 6:**





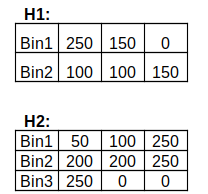




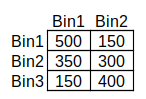


**Pregunta 7:**

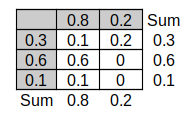
Histogramas:



Matriz de Distancias:



Matriz de Flujos:



Componentes matriz EDM y valor EDM:

