Quiz: Tutorial: Using CamShift to Track Objects in Video

Question #1: It is important that we select our ROI (Region of Interest) before applying the CamShift algorithm because:

A. We need to know the texture distribution of the object of the image we want to track
B. We need to know the shape distribution of the object of the image we want to track
C. We need to know the color distribution of the object of the image we want to track
D. The ROI is not needed for the CamShift algorithm

Question #2: What is a major limitation of our implementation?

A. Only the Hue components of the HSV color space is utilized; a second component should be used as well
B. The cv2.CamShift function is not suitable for real-time applications
C. The cv2.calcBackProject function is not suitable for real-time applications
D. There are no limitations

Question #3: OpenCV supports 3D histograms in the back-projection algorithm:

A. Yes
B. No

Question #4: What does the `cv2.calcHist` function do?

A. Applies histogram back-projection
B. Calculates a histogram of pixel intensities
C. Draws a bounding box around our tracked object
D. Defines the termination criteria for CamShift

Answers: Tutorial: Using CamShift to Track Objects in Video

Question 1: C

Question 2: A

Question 3: B

Question 4: B